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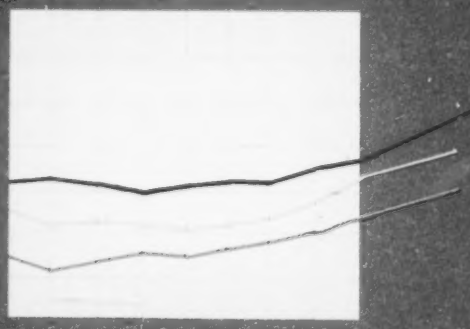
1984 Statistics of PAPER PAPERBOARD & WOOD PULP



DATA THROUGH 1983

AMERICAN PAPER INSTITUTE API 260 MADISON AVENUE NEW YORK 10016

F O R E W O R D

We are pleased to present the twenty-second edition of the American Paper Institute's **Statistics of Paper, Paperboard and Wood Pulp.**

The Statistics of Paper, Paperboard and Wood Pulp is designed to present an up-to-date comprehensive statistical history of the paper and paperboard industry. In addition to the statistics on production, imports, exports, consumption, finances, prices, employment and wage rates, this report compares trends of new supply of paper and paperboard by major grades with trends in population and in total economic activity as measured by the real Gross National Product.

The current edition follows the format instituted in the 1981 report, combining the tables into functional groupings: (1) production and related data; (2) regional data; (3) data on inputs - fuels, fibrous raw materials, labor and capital, along with expenditures on research and development; (4) data on financial and price trends. The fifth section is a supplement presenting Census data on wet machine board and construction paper and board, together with the import and export data used to calculate paper and paperboard new supply. It also includes an index to this report.

Each section starts with a brief description and explanation of the tables contained in that section.

We welcome any comments or suggestions you may have concerning the usefulness of this report.

Norma Pace

Norma Pace
Senior Vice President

October 1984

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SECTION I

PRODUCTION AND RELATED OUTPUT DATA

Total production of paper and paperboard (including construction and wet machine board grades) reached a record high of 67,073,000 tons in 1983. This was 9.7% above the 1982 recession low and 4.1% above the previous high established in 1981. Imports and exports both strengthened, although neither reached earlier highs. Total new supply (production plus imports minus exports) amounted to 71,491,000 tons which was also a record high. New supply total was 10% above the recession low of 1982 and 2% above the previous high established in 1979.

The gain in new supply was, as is normal in the upswing of a business cycle, somewhat greater than the increase in real GNP and much greater than the increase in population. Per capita consumption in 1983 was 610.5 lbs., second only to the 621.6 lbs. established in 1979. The ratio of new supply to real GNP, which measures the trend of paper and paperboard consumption relative to total economic activity, was 46,600 tons per billion dollars of real GNP; this was the highest level reached since 1977.

Table I presents data on production, imports, exports and new supply (production plus imports minus exports) of total paper, paperboard, wet machine board, construction paper and insulating board, together with data on population, the gross national product expressed in 1972 dollars (real GNP) and the relationship between new supply, population and real GNP for selected years from 1899 to 1944 and annually from 1947 to 1983. The 1983 production total includes an estimate of 2 million tons for production of wet machine board, construction paper and insulating board.

Chart 1 portrays the trends of new supply, production, real GNP and the ratio of new supply to real GNP annually for the years 1959-1983.

The chart highlights the record high established in 1983 for new supply, production and for the real GNP as well. It also traces the decline in new supply relative to real GNP from 1979 to the recession low of 1982. It is not unusual for new supply to decline faster than real GNP in the downswing of the business, cycle, as indicated by the ratios in 1975, 1967 and 1960 shown on the chart. The last column of Table I carries these data back to earlier years, where the recessions of 1949 and 1953 were also marked by a slower growth in paper and paperboad new supply relative to real GNP.

Table IA and Chart 1A present data on production, imports, exports and new supply of total paper and paperboard, excluding wet machine board, construction paper and insulating board grades for the years 1959 to 1983. The data in Table IA and Chart 1A are consistent with the current monthly data published by the API.

The trend in production of paper plus paperboard excluding the construction and wet machine board grades, had long been similar to that of the total including these grades. However, in recent years the production of construction paper and insulating board has been at relatively low levels, reflecting weakness in the construction of new homes. As a result, the trend of paper and paperboard production has been somewhat stronger than that of the total including the other grades.

As Table IA and Chart 1A show, production and new supply of paper and paperboard both made new highs in 1983. While imports and exports also rose, they remained below the highs established in earlier years. The gain in new supply was much stronger than that of real GNP so that the ratio of new supply to real GNP in 1983 moved up to 45,100 tons per billion dollars of real GNP. This was the highest level reached since 1976, and slightly above the average 1976-1979 level.

Table II presents detailed data on production of paper by grade. The data on production of coated papers have been revised slightly starting in 1968. These revisions are also reflected in the data on total printing and writing papers, total paper and the total for all grades of paper and paperboard as shown in Table I and IA.

Data on shipments of unbleached kraft papers have also been revised in the period starting with 1974. However, in this case the tonnage was shifted to special industrial papers, based upon new information on the correct classification of the individual products.

Tables III to IX show detailed data on the production of paperboard. These data are presented in terms of paperboard grades related to end-uses, such as, containerboard and boxboard, as well as in terms of raw material input, such as kraft paperboard and semichemical paperboard.

Table X presents a summary of the trends of new supply of paper and paperboard by major grades together with data on their relationship to real GNP. The table shows that new supply of most of the grades of paper and paperboard made new highs in 1983. This table also highlights the relative growth patterns of the various grades, pointing up the strength in demand for the white papers and for unbleached kraft paperboard. The import and export data used to compute new supply are shown in Tables XXXIV and XXXV and differ somewhat from the import and export data shown on Table XIII and XIV, reflecting information available from sources other than the Bureau of Census.

Tables XI and XII show data on paper and paperboard capacity, total wood pulp capacity, and capacity to produce market pulp.

Tables XIII and XIV present the import and export data, as reported by the Bureau of Census for the years 1978-1983.

Table XV shows detailed data on the value of shipments of paper and paperboard at the Census Product Code five-digit level for the years 1977 through 1982, as reported by the Department of Commerce.

TABLE I

PAPER AND BOARD

(Includes Wet Machine Board and Construction Grades)

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1899 - 1983

YEAR	Production	Imports (Inc. Products)	Exports	New Supply*	Population Millions	Per Capita New Supply --lbs.--	Real Gross National Product $ Bil.1972 Prices	Ratio New Supply to Real GNP 000 Tons/Bil.$
	(Thousand Tons)							
1899	2,168	-	-	2,168	74.9	57.9	-	-
1919	5,966	708	421	6,253	105.1	119.6	-	-
1929	11,140	2,534	262	13,411	121.8	220.3	315.7	42.5
1934	9,187	2,265	163	11,289	126.5	178.3	239.1	47.2
1939	13,510	2,687R	249	15,949	131.0	243.5	319.8	49.9
1944	17,183	2,576	314	19,445	138.9	280.0	569.1	34.2
1947	20,800	4,121	460	24,461	144.7	338.1	470.3	52.0
1948	21,532	4,582	377	25,737	147.2	349.7	489.8	52.5
1949	20,098	4,752	367	24,483	149.8	326.9	492.2	49.7
1950	23,992	5,006	364	28,634	152.3	376.0	534.8	53.5
1951	25,699	5,143	631	30,211	154.9	390.1	579.4	52.1
1952	24,008R	5,190	584	28,614	157.6	363.1	600.8	47.6
1953	26,182	5,229	471	30,940	160.2	386.3	623.6	49.6
1954	26,411	5,165	682	30,894	163.0	379.1	616.1	50.1
1955	29,649	5,346	839	34,156	165.9	411.7	657.5	51.9
1956	30,901	5,780	775	35,906	168.9	425.2	671.6	53.5
1957	30,097	5,410	863	34,644	172.0	402.8	683.8	50.7
1958	30,214	5,092	847	34,459R	174.9	394.0	680.9	50.6
1959	33,748	5,517	906	38,358	177.8	431.5	721.7	53.2
1960	33,904	5,633	1,021	38,517	180.7	426.3	737.2	52.2
1961	35,178	5,678	1,210	39,646	183.7	431.6	756.6	52.4
1962	37,062	5,740	1,187	41,616	186.5	446.3	800.3	52.0
1963	38,647	5,669	1,333	42,981	189.2	454.3	832.5	51.6
1964	40,962	6,209	1,694	45,477	191.9	474.0	876.4	51.9
1965	43,455	6,585	1,770	48,270	194.3	496.9	929.3	51.9
1966	46,702	7,358	1,942	52,115	196.6	530.2	984.8	52.9
1967	46,568	6,952	2,085	51,432	198.7	517.7	1,011.4	50.9
1968R	50,134	6,842	2,625	54,351	200.7	542.0	1,058.1	51.4
1969R	52,914	7,258	2,749	57,421	202.7	567.0	1,087.6	52.8
1970R	51,671	7,115	2,817	55,969	205.1	545.8	1,085.6	51.6
1971R	53,162	7,406	3,118	57,451	207.7	553.2	1,122.4	51.2
1972R	57,433	7,676	3,069	62,040	209.9	591.1	1,185.9	52.3
1973R	59,900	8,131	3,027	65,003	211.9	613.5	1,255.0R	51.8
1974R	59,175	8,065	3,797	63,443	213.9	593.2	1,248.0R	50.8
1975R	51,096	6,253	3,116	54,231	216.0	502.1	1,233.9R	44.0
1976R	58,459	7,142	3,456	62,144	218.0	570.1	1,298.2	47.9
1977R	60,170	7,432	3,230	64,371	220.2	584.7	1,369.7	47.0
1978R	62,182	9,113	3,373	67,922	222.6	610.3	1,438.6	47.2
1979R	64,510	9,123	3,672	69,961	225.1	621.6	1,479.4	47.3
1980R	63,667	8,780	5,214	67,233	227.7	590.5	1,475.0	45.6
1981R	64,403	8,339	4,541	68,101	229.8	592.7	1,512.2	45.0
1982P	61,119**	8,024	4,246	64,897	232.0	559.5	1,480.0	43.8
1983P	67,073**	8,986	4,568	71,491	234.2	610.5	1,534.7	46.6

SOURCE: Production 1899-1958 - Department of Commerce, Bureau of the Census
Production 1959-1983 - American Paper Institute
Imports and Exports - Department of Commerce, Bureau of the Census
Population - Department of Commerce, Bureau of the Census
Real Gross National Product - Department of Commerce, Bureau of Economic Analysis
All calculations by American Paper Institute

NOTE: Production, Imports and Exports 1947-1983 exclude Hardboard
Population data includes Armed Forces overseas
R - Revised P - Preliminary

* New Supply = Production plus Imports less Exports; includes imports and exports of products.

** Includes API estimate for construction and wet machine board grades: 1982 - 1,662,000 tons; 1983 - 1,920,000 tons (See Table X)

CHART 1

PAPER AND PAPERBOARD

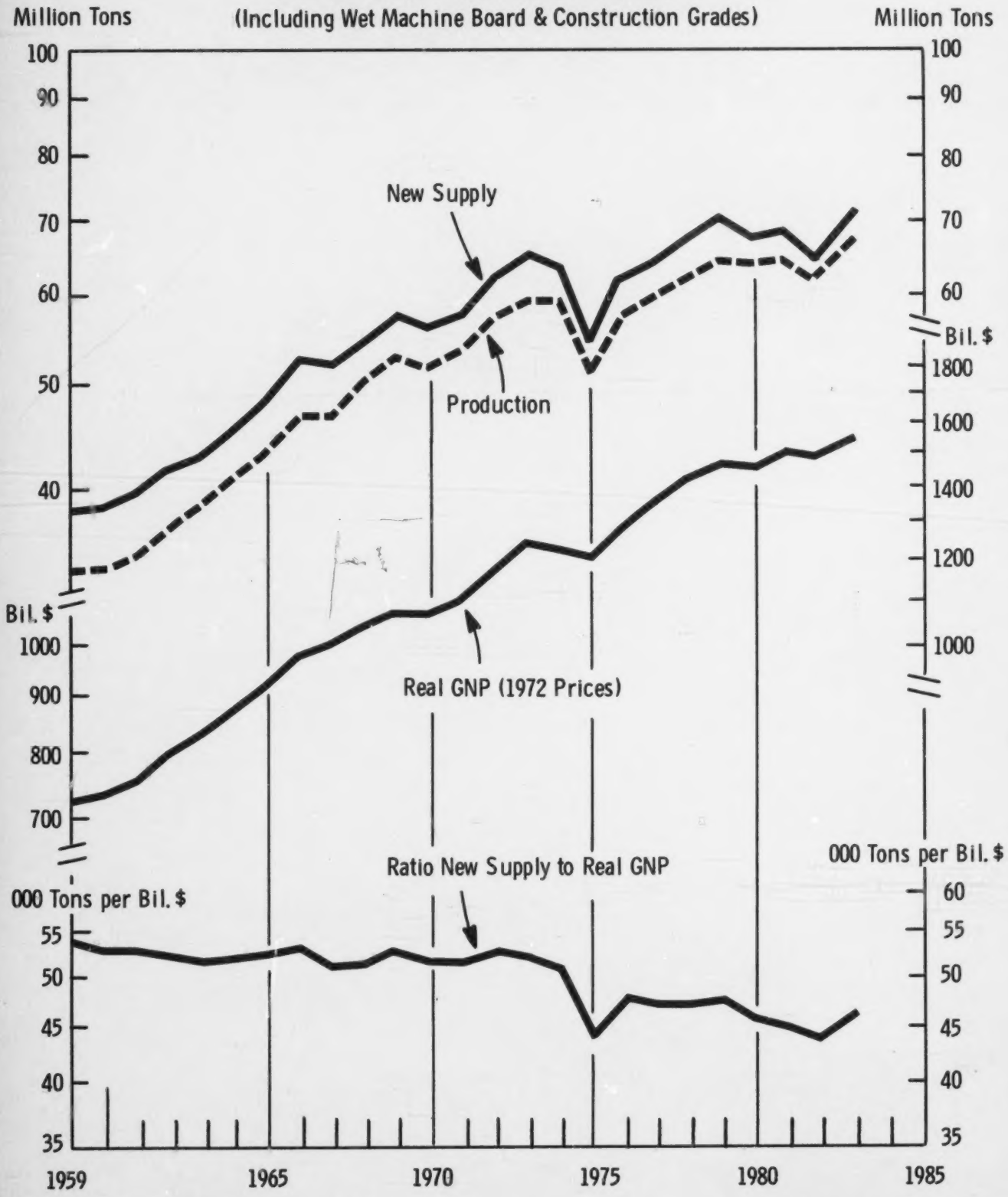

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TABLE IA

PAPER PLUS PAPERBOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1959 - 1983

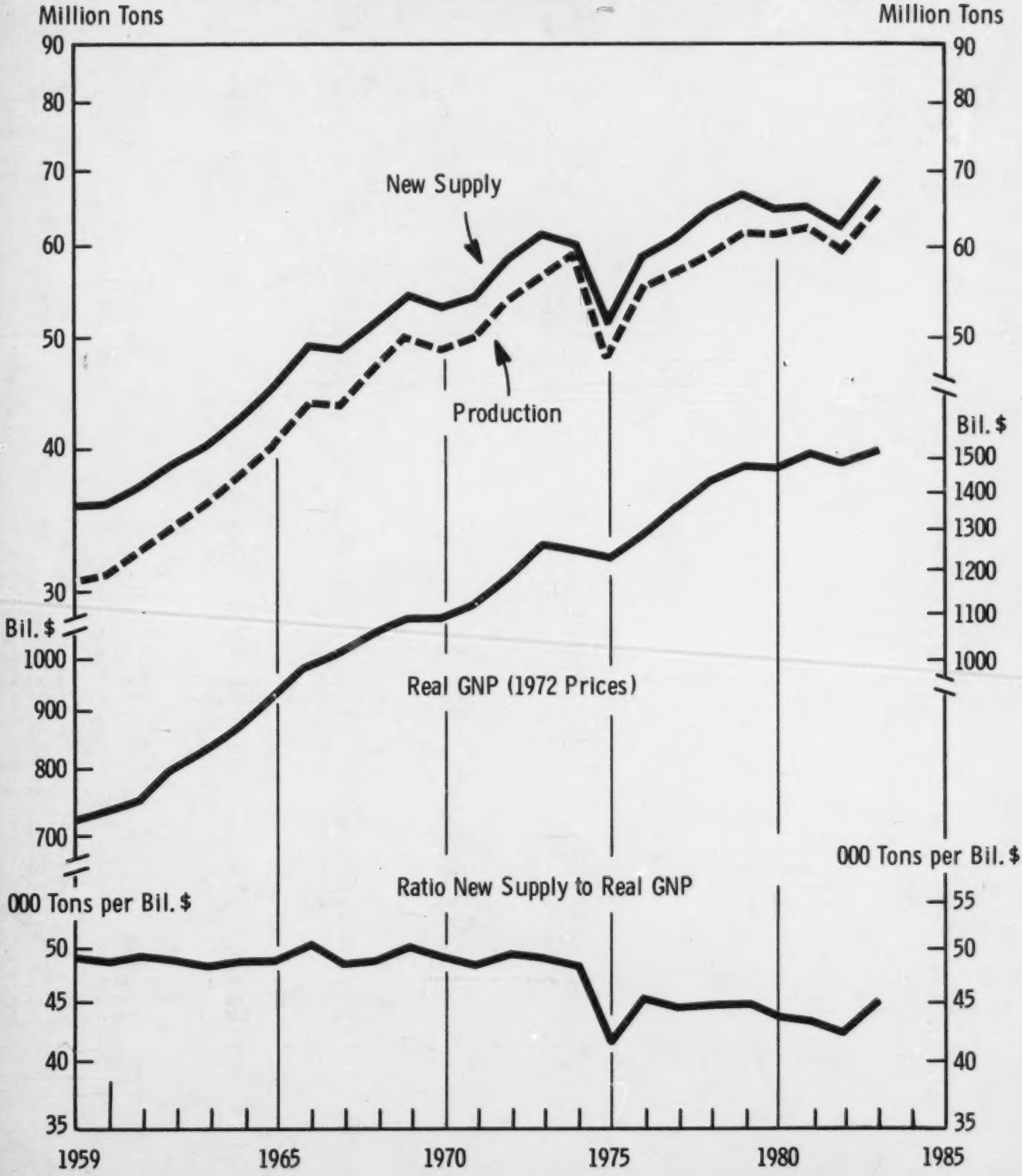
YEAR	Production	Imports	Exports	New Supply*	Real Gross National Product $ Bil.1972 Prices	Ratio New Supply to Real GNP 000 Tons/$ Bil.
	Thousand Tons					
1959	30,997	5,484	874	35,607	721.7	49.3
1960	31,221	5,611	990	35,842	737.2	48.6
1961	32,548	5,663	1,174	37,037	756.6	49.0
1962	34,407	5,719	1,154	38,972	800.3	48.7
1963	35,914	5,637	1,302	40,249R	832.5	48.3
1964	38,066	6,154	1,660	42,560	876.4	48.6
1965	40,489	6,545	1,737	45,297	929.3	48.7
1966	43,904	7,327	1,904	49,327	984.8	50.1
1967	43,745	6,917	2,054	48,608	1,011.4	48.1
1968R	47,071	6,793	2,587	51,277	1,058.1	48.5
1969R	49,810	7,209	2,703	54,316	1,087.6	49.9
1970R	48,719	7,057	2,779	52,997	1,085.6	48.8
1971R	49,741	7,319	3,076	53,984	1,122.4	48.1
1972R	53,841	7,567	3,020	58,388	1,185.9	49.2
1973R	56,346	8,019	2,966	61,399	1,255.0	48.9
1974R	55,892	7,970	3,720	60,142	1,248.0	48.2
1975R	48,117	6,164	3,050	51,231	1,233.9	41.5
1976R	55,124	7,042	3,388	58,778	1,298.2	45.3
1977R	56,786	7,294	3,171	60,909	1,369.7	44.5
1978R	58,705	8,781	3,301	64,185	1,438.6	44.6
1979R	61,235	8,738	3,610	66,365	1,479.4	44.9
1980R	61,109	8,304	5,148	64,265	1,475.0	43.6
1981R	62,253	7,941	4,561	65,633	1,512.2	43.4
1982R	59,456	7,603	4,187	62,872	1,480.0	42.5
1983P	65,153	8,509	4,501	69,161	1,534.7	45.1

SOURCE: See Table I
NOTE: All data exclude wet machine board, building paper and insulating board.
* - New Supply = Production plus imports less exports; includes imports and exports of products.
R - Revised
P - Preliminary

CHART 1A

PAPER & PAPERBOARD

(Excluding Wet Machine Board & Construction Grades)



American Paper Institute
Economics Dept.

TABLE II

TOTAL PAPER SHIPMENTS

1959 - 1963

(Thousands of Tons)

	1959	1960	1961	1962	1963	1964
TOTAL PAPER, ALL GRADES	**15,025.3**	**15,294.6**	**15,821.1**	**16,560.4**	**17,319.5**	**18,111.7**
Newsprint Production	**1,964.0**	**2,038.0**	**2,094.0**	**2,153.9**	**2,218.0**	**2,261.0**
Total Printing-Writing Papers	**6,907.4**	**7,120.6**	**7,369.9**	**7,803.7**	**8,183.5**	**8,667.9**
Uncoated Groundwood	**896.4**	**929.0**	**907.3**	**909.7**	**956.4**	**995.4**
Publishing and Printing	731.0	746.8	746.2	755.0	806.7	837.2
Converting	165.4	182.2	161.1	154.7	149.7	158.2
Coated Papers	**1,992.3**	**2,122.3**	**2,159.3**	**2,290.5**	**2,425.2**	**2,608.3**
Uncoated Free Sheet Papers	**3,095.8**	**3,112.5**	**3,270.1**	**3,458.3**	**3,634.1**	**3,847.5**
Chemical Wood Pulp Writing Papers	1,205.5	1,166.2	1,279.6	1,401.5	1,452.2	1,538.3
Bond and Writing	429.2	371.8	407.0	457.3	470.0	499.2
Form Bond	245.0	260.0	300.0	345.0	375.0	420.0
Ledger	47.1	42.6	43.5	45.9	45.1	43.0
Mimeograph	102.5	102.1	110.0	113.3	110.9	116.5
Duplicating	92.3	93.6	106.0	111.5	116.0	117.3
Manifold	25.8	25.8	24.3	22.9	17.4	15.5
Papeterie and Wedding	50.1	49.9	44.7	49.3	42.9	45.2
Opaque Circular	27.8	30.1	28.8	26.5	27.3	20.6
Other	185.7	190.3	215.3	229.8	247.6	261.0
Cover and Text Papers	129.0	133.1	142.1	153.8	155.4	168.1
Other Uncoated Free Sheet	1,761.3	1,813.2	1,848.4	1,903.0	2,026.5	2,141.1
M.F., E.F. & Super Calendered	478.5	437.4	346.6	274.2	264.1	240.1
Offset	547.8	622.6	679.3	765.1	862.3	948.5
White Wove Envelope	261.6	267.3	280.0	310.6	318.8	357.3
Tablet	219.6	221.5	249.9	250.3	281.5	293.7
Kraft Envelope Papers: Total	154.3	157.7	164.1	175.3	175.2	172.0
Brown Kraft - Estimated	70.0	75.0	80.0	85.0	85.0	80.0
Bleached Kraft - Estimated	74.3	82.7	84.1	90.3	90.2	92.0
Other	99.5	106.7	128.5	127.5	124.6	129.5
Thin Papers	**135.1**	**148.1**	**153.9**	**183.7**	**178.7**	**192.7**
Cotton Fiber Papers	**119.9**	**115.0**	**118.6**	**118.0**	**118.8**	**117.8**
Bond and Writing	67.5	66.4	69.4	68.8	70.8	72.1
Other Business	32.1	29.9	30.4	30.5	29.7	28.0
Technical and Other	20.3	18.7	18.8	18.7	18.3	17.7
Bleached Bristols	**667.9**	**693.7**	**760.7**	**843.5**	**870.3**	**906.2**
Tabulating Index	279.3	298.2	342.9	393.7	395.5	419.4
Tag	144.1	143.1	149.5	154.6	164.7	171.5
File Folder	44.6	42.9	39.2	51.2	58.9	59.6
Index Bristol	98.3	92.4	94.2	97.6	98.0	97.4
Printing Bristol	20.1	19.9	21.7	22.3	22.3	22.4
Postcard	13.3	16.5	18.7	18.6	13.7	10.4
Coated Bristol	68.2	80.7	94.5	105.5	117.2	125.5
Total Packaging and Industrial Papers	**4,026.0**	**3,934.6**	**4,045.0**	**4,188.6**	**4,341.6**	**4,436.1**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**3,731.0**	**3,651.4**	**3,733.0**	**3,880.6**	**4,027.2**	**4,091.7**
Unbleached Kraft Papers	2,776.1	2,738.7	2,779.7	2,890.9	3,051.4	3,098.4
Wrapping	337.3	329.6	343.2	339.2	354.6	352.2
Bag and Sack (Exc. Shipping Sack)	1,102.0	1,127.2	1,135.1	1,231.0	1,270.2	1,326.2
Shipping Sack	813.6	786.7	795.9	797.8	880.7	865.9
Other Converting	523.2	495.2	505.5	522.9	545.9	554.1
Bleached Packaging Papers (Census)	779.0	735.5	769.1	799.0	782.0	797.4
Wrapping	228.7	215.0	196.3	204.3	191.4	191.7
Bag and Sack (Exc. Shipping Sack)	102.8	102.6	121.7	134.5	130.4	138.5
Shipping Sack	54.7	59.3	61.4	59.8	67.0	75.2
Other Converting 1/	392.8	358.6	389.7	400.4	393.2	392.0
Glassine, Grsprf. and Veg. Parch. (Census)	175.9	177.2	184.2	190.7	193.8	195.9
Special Industrial Papers (Census)	**295.0**	**283.2**	**312.0**	**308.0**	**314.4**	**344.4**
Total Tissue Papers (Census)	**2,127.9**	**2,201.4**	**2,312.2**	**2,414.2**	**2,576.4**	**2,746.7**
Total Sanitary Tissue Stock	**1,881.7**	**1,963.6**	**2,078.0**	**2,178.9**	**2,340.4**	**2,515.7**
Toilet Tissue	878.4	878.0	936.1	985.4	1,054.6	1,107.2
Facial Tissue Stock	233.7	254.2	262.0	261.8	278.4	327.4
Napkin Stock	228.6	238.1	246.6	249.5	261.3	266.1
Towelling*	469.1	516.2	558.9	604.5	662.9	723.1
Wiper Stock*	21.7	25.7	26.5	31.9	33.1	38.4
Other Sanitary Tissue*	50.2	51.3	47.7	45.8	50.0	53.5
Total All Other Tissue	**246.2**	**237.8**	**234.3**	**235.3**	**236.0**	**231.0**

1/ Excludes Bleached Kraft Envelope Paper * Revised slightly by API

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959 - 1983

(Thousands of Tons)

	1965	1966	1967	1968R	1969R	1970R
TOTAL PAPER, ALL GRADES	**19,157.0**	**20,724.9**	**20,925.6**	**22,167.7RS**	**23,434.6**	**23,335.5**
Newsprint Production	**2,245.0**	**2,483.0**	**2,709.0**	**3,045.0**	**3,362.0**	**3,464.0**
Total Printing-Writing Papers	**9,337.5**	**10,318.4**	**10,121.9**	**10,497.9RS**	**11,157.6**	**10,922.3**
Uncoated Groundwood	**974.0**	**1,088.3**	**1,019.6**	**1,090.3**	**1,094.9**	**1,084.6**
Publishing and Printing	814.0	876.4	806.4	883.3	914.0	924.4
Converting	160.0	211.9	213.2	207.0	180.9	160.2
Coated Papers	**2,814.2**	**3,087.6**	**3,086.4**	**3,100.5RS**	**3,306.4**	**3,239.2**
Uncoated Free Sheet Papers	**4,216.0**	**4,691.9**	**4,577.0**	**4,817.7**	**5,214.9**	**5,124.4**
Chemical Wood Pulp Writing Papers	1,725.9	1,931.2	1,964.2	2,061.7	2,307.0	2,288.9
Bond and Writing	555.9	620.8	613.9	627.1	718.0	698.6
Form Bond	490.0	575.0	600.0	645.0	778.1	722.1
Ledger	46.6	49.1	47.5	54.6	51.1	48.2
Mimeograph	117.3	125.4	122.7	115.1	113.1	126.4
Duplicating	125.6	134.9	141.9	160.9	172.5	165.6
Manifold	19.9	20.2	17.2	14.0	11.0	9.8
Papeterie and Wedding	45.5	51.7	51.7	56.0	59.9	53.9
Opaque Circular	22.9	23.8	24.6	23.3	25.0	23.6
Other	302.2	330.3	344.7	365.7	378.3	440.7
Cover and Text Papers	186.0	194.1	192.2	192.8	200.1	193.2
Other Uncoated Free Sheet	2,306.1	2,566.6	2,420.6	2,536.2	2,707.8	2,642.3
M.F., E.F. & Super Calendered	219.3	228.2	209.9	198.2	214.3	162.1
Offset	1,062.4	1,221.9	1,165.3	1,272.1	1,356.5	1,360.4
White Wove Envelope	392.4	412.8	423.0	459.6	461.2	466.1
Tablet	304.4	346.3	294.6	313.0	320.9	342.4
Kraft Envelope Papers: Total	194.0	203.7	188.5	186.6	208.8	189.6
Brown Kraft	67.0E	68.1E	92.9E	92.1E	102.9	95.7
Bleached Kraft	127.0E	135.6E	95.6E	94.5E	105.9	93.9
Other	131.6	153.7	139.3	133.7	146.1	121.7
Thin Papers	**211.3**	**245.4**	**238.0**	**261.6**	**289.0**	**287.9**
Cotton Fiber Papers	**122.3**	**126.3**	**124.8**	**124.0**	**128.1**	**115.4**
Bond and Writing	74.8	78.7	74.8	80.5	85.3	76.5
Other Business	29.0	28.8	30.1	25.2	24.7	23.4
Technical and Other	18.5	18.8	19.9	18.3	18.1	15.5
Bleached Bristols	**999.7**	**1,078.9**	**1,076.1**	**1,103.8**	**1,123.7**	**1,070.8**
Tabulating Index	478.6	514.4	533.2	534.6	558.7	499.6
Tag	194.9	196.9	187.4	203.7	193.5	184.3
File Folder	64.0	71.4	71.0	77.8	76.5	72.0
Index Bristol	100.6	115.0	105.5	104.4	100.4	102.3
Printing Bristol	23.4	26.5	24.6	24.0	28.4	32.0
Postcard	8.8	10.3	8.5	5.2	6.8	6.7
Coated Bristol	129.4	144.4	145.9	154.1	159.4	173.9
Total Packaging and Industrial Papers	**4,683.9**	**4,823.7**	**4,865.8**	**5,168.9**	**5,304.8**	**5,230.8**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**4,319.1**	**4,430.1**	**4,479.3**	**4,753.1**	**4,861.8**	**4,809.7**
Unbleached Kraft Papers	3,293.1	3,414.4	3,391.9	3,602.5	3,670.2	3,672.4
Wrapping	358.9	370.0	334.7	353.5	327.7	296.4
Bag and Sack (Exc. Shipping Sack)	1,447.7	1,548.1	1,631.3	1,713.0	1,797.9	1,927.4
Shipping Sack	894.9	884.7	902.5	978.8	983.5	953.3
Other Converting	591.6	611.6	523.4	557.2	561.1	495.3
Bleached Packaging Papers (Census)	825.4	801.1	891.3	942.9	975.2	934.0
Wrapping	207.4	208.4	217.7	210.5	229.3	219.6
Bag and Sack (Exc. Shipping Sack)	163.1	171.6	185.5	207.8	227.3	218.6
Shipping Sack	72.0	73.7	89.1	88.7	99.8	97.9
Other Converting 1/	382.9	347.4	398.9	435.8	418.7	397.9
Glassine, Grspf. and Veg. Parch. (Census)	200.6	214.6	196.1	207.7	216.4	203.3
Special Industrial Papers (Census)	**364.8**	**393.6**	**386.5**	**415.8**	**443.0**	**421.1**
Total Tissue Papers	**2,890.6C**	**3,099.8C**	**3,228.9**	**3,455.9**	**3,610.8**	**3,718.4**
Total Sanitary Tissue Stock	**2,651.4**	**2,847.5**	**2,976.7**	**3,217.2**	**3,368.6**	**3,494.0**
Toilet Tissue	1,120.9	1,169.9	1,171.0	1,273.1	1,274.7	1,323.1
Facial Tissue Stock	327.2	337.5	349.1	349.8	386.4	365.0
Napkin Stock	287.3	332.8	347.3	374.7	377.8	381.2
Towelling	816.4	897.7	987.8	1,077.7	1,136.9	1,168.1
Wiper Stock	40.1	49.1	48.9	50.3	58.8	55.8
Other Sanitary Tissue	59.5	60.5	72.8	91.5	134.1	200.8
Total All Other Tissue	**239.2**	**252.3**	**252.1**	**238.7**	**242.2**	**224.5**

E - Estimated 1/ Excludes Bleached Kraft Envelope Paper RS - Revised Series

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board C - Bureau of the Census data

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959-1983

(Thousands of Tons)

	1971R	1972R	1973R	1974R	1975R	1976R
TOTAL PAPER, ALL GRADES	**23,704.1**	**25,339.5**	**26,774.7**	**26,976.4**	**23,360.8**	**26,683.6**
Newsprint Production	**3,476.0**	**3,656.0**	**3,738.0**	**3,561.0#**	**3,691.0**	**3,735.9**
Total Printing-Writing Papers	**11,150.1**	**12,213.2**	**13,388.7**	**13,450.1**	**10,981.3**	**13,223.5**
Uncoated Groundwood	**1,089.2**	**1,126.0**	**1,180.9**	**1,192.4**	**1,127.2**	**1,320.6**
Publishing and Printing	929.0	950.9	985.1	1,001.8	947.5	1,066.5
Converting	160.2	175.1	195.8	190.6	179.7	254.1
Coated Papers	**3,191.9R**	**3,483.2R**	**3,779.1R**	**3,775.8R**	**3,155.4**	**3,933.1R**
Uncoated Free Sheet Papers	**5,386.9**	**5,991.2**	**6,713.6**	**6,795.3**	**5,363.3**	**6,492.8**
Chemical Wood Pulp Writing Papers	2,435.2	2,753.2	3,294.6R	3,603.9R	2,768.6R	3,369.4R
Bond and Writing	761.5	889.6	1,075.0R	1,332.6R	1,017.3R	1,278.9R
Form Bond	787.1	913.0	1,119.9	1,161.5	950.1R	1,164.4R
Ledger	51.5	53.9	62.0	71.0	51.2	57.8
Mimeograph	125.5	128.2	143.3	128.8	96.2	100.8
Duplicating	162.9	171.4	182.4	178.4	123.6	136.0
Manifold	10.7	11.8	12.7	11.7	9.0	12.0
Papeterie and Wedding	51.9	51.1	57.3	47.3	34.2	47.5
Opaque Circular	24.5	26.2	33.6	38.1	26.6	32.8
Other	459.6	508.0	608.4	634.5	460.4	539.2
Cover and Text Papers	181.0	194.4	219.5	213.1	156.2	175.3
Other Uncoated Free Sheet	2,770.7	3,043.6	3,199.5	2,978.3	2,438.5	2,948.1
M.F., E.F. & Super Calendered	147.6	128.6	154.6	128.1	66.5	69.3
Offset	1,443.4	1,661.8	1,828.9	1,800.6	1,435.9	1,748.6
White Wove Envelope	467.6	527.0	570.9	530.6	456.6	519.9
Tablet	401.3	396.5	305.5	167.5	229.3	299.6
Kraft Envelope Papers: Total	176.9	189.5	214.0	203.1	163.8	204.0
Brown Kraft	93.7	93.2	106.7	98.3	83.4	101.4
Bleached Kraft	83.2	96.3	107.3	104.8	80.4	102.6
Other	133.9	140.2	125.6	148.4	86.4	106.7
Thin Papers	**292.3**	**333.2**	**358.2**	**371.8**	**310.8**	**348.4**
Cotton Fiber Papers	**112.8**	**119.1**	**123.7**	**117.0**	**94.5**	**104.2**
Bond and Writing	75.7	81.1	85.5	82.2	67.6	75.8
Other Business	21.1	22.2	22.8	20.8	16.3	15.8
Technical and Other	16.0	15.8	15.4	14.0	10.6	12.6
Bleached Bristols	**1,077.0**	**1,160.5**	**1,233.2**	**1,197.8**	**930.1**	**1,024.4**
Tabulating Index	458.3	465.0	491.2	498.6	372.7	334.3
Tag	193.5	217.1	220.3	140.1	132.3	177.6
File Folder	80.9	88.3	87.1	66.9	86.0	92.0
Index Bristol	106.1	120.9	130.9	181.0	119.0	140.8
Printing Bristol	32.9	39.2	46.9	52.5	37.9	43.0
Postcard	6.7	5.7	3.1	0.2	1.3	1.4
Coated Bristol	198.6	224.3	253.7	258.5	180.9	235.3
Total Packaging and Industrial Papers	**5,245.4**	**5,493.7**	**5,609.2**	**5,878.9**	**4,709.1**	**5,540.6**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**4,807.1**	**4,986.9**	**4,999.1**	**5,267.6**	**4,258.4**	**4,954.0**
Unbleached Kraft Papers	3,649.2	3,810.9	3,901.6	4,168.5RS	3,373.7	3,918.1
Wrapping	280.3	282.5	272.3	175.3RS	139.1	150.0
Bag and Sack (Exc. Shipping Sack)	1,929.3	2,014.5	2,006.2	2,130.5RS	1,924.6	2,106.2
Shipping Sack	930.4	935.7	1,025.8	1,187.2RS	838.4	1,004.2
Other Converting	509.2	578.2	597.3	675.5RS	471.6	657.7
Bleached Packaging Papers (Census)	952.1	942.0	867.0	858.6	693.5	828.7
Wrapping	205.7	204.4	158.1	143.1	115.3	126.4
Bag and Sack (Exc. Shipping Sack)	234.7	240.8	254.2	245.2	227.8	273.9
Shipping Sack	101.9	105.1	104.4	130.2	95.3	127.6
Other Converting 1/	409.8	391.7	350.4	340.1	255.1	300.8
Glassine, Grsprf. and Veg. Parch. (Census)	205.8	234.0	230.5	240.5	191.2	207.2
Special Industrial Papers	**438.3**	**506.8**	**610.1**	**611.3RS**	**450.7**	**586.6**
Total Tissue Papers (Census)	**3,832.6**	**3,976.6**	**4,038.8**	**4,086.4**	**3,979.4**	**4,183.6**
Total Sanitary Tissue Stock	**3,604.3**	**3,746.2**	**3,771.8**	**3,823.2**	**3,771.9**	**3,954.6**
Toilet Tissue	1,376.2	1,398.7	1,440.5	1,466.1	1,520.1	1,608.9
Facial Tissue Stock	341.1	367.2	361.8	356.9	339.8	335.1
Napkin Stock	394.7	419.3	447.7	442.5	462.1	455.2
Towelling	1,183.7	1,249.4	1,276.4	1,333.2	1,248.5	1,323.2
Wiper Stock	54.9	59.4	61.3	45.3	37.0	46.4
Other Sanitary Tissue	253.8	252.2	184.1	179.2	164.6	185.9
Total All Other Tissue	**228.3**	**230.5**	**267.0**	**263.2**	**207.5**	**228.9**

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

1/ Excludes Bleached Kraft Envelope Paper

\# Basis weight change from 32 lb. to 30 lb.

RS Revised Series

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959 - 1983

(Thousands of Tons)

	1977R	1978R	1979R	1980R	1981R	1982R	1983P
TOTAL PAPER, ALL GRADES	27,832.9	28,430.8	29,806.4	30,156.4	31,020.5	30,390.5	32,976.0
Newsprint Production	3,870.5	3,767.5	4,061.9	4,672.3	5,238.6	5,041.9	5,167.0
Total Printing-Writing Papers	13,859.6	14,568.9	15,318.6	15,538.6	15,708.5	15,610.9	17,386.8
Uncoated Groundwood	1,359.7	1,354.4	1,509.0	1,498.8R	1,471.1	1,470.8R	1,530.8
Publishing and Printing	1,082.4	1,061.0	1,186.0	1,178.2	1,113.1	1,113.2R	1,166.8
Converting	277.3	293.4	323.0	320.6	358.0	357.6R	364.0
Coated Papers	4,210.3	4,399.9	4,472.3	4,616.6	4,882.7	4,974.0R	5,695.7
Uncoated Free Sheet Papers	6,790.8	7,246.0	7,863.1	8,032.2	7,915.4	7,854.9	8,767.3
Chemical Wood Pulp Writing Papers	3,523.2	3,793.9	4,087.2	4,335.2	4,303.0	4,262.8R	4,764.9
Bond and Writing	1,353.5	1,424.7	1,578.3	1,789.7	1,694.0	1,756.4	2,010.4
Form Bond	1,208.3	1,330.5	1,449.3	1,491.6	1,580.3	1,529.5	1,745.4
Ledger	59.9	57.7	58.0	51.3	49.9	48.9	51.4
Mimeograph	92.3	91.9	85.6	90.9	75.5	53.0	55.9
Duplicating	147.0	149.5	153.3	173.6	147.6	139.8	132.1
Manifold	9.2	12.1	10.8	8.9	4.0	3.1	2.9
Papeterie and Wedding	43.6	49.2	56.4	46.2	45.6	42.0	38.7
Opaque Circular	32.7	39.6	45.5	36.3	36.9	39.7	41.3
Carbonless	N.A.	N.A.	N.A.	338.8	375.2	378.7	400.0
Other	576.7	638.7	650.0	307.9	294.0	271.7	286.8
Cover and Text Papers	189.1	212.1	243.1	238.2	243.0	233.7	273.6
Other Uncoated Free Sheet	3,078.1	3,240.0	3,532.8	3,458.8	3,369.4	3,358.4	3,728.8
M.F., E.F. & Super Calendered	66.1	69.5	85.9	78.7	77.3	65.7	82.5
Offset	1,856.8	1,880.6	2,109.7	2,034.9	1,981.6	1,977.9	2,164.5
White Wove Envelope	554.4	592.3	634.9	649.9	638.3	638.7	715.1
Tablet	285.4	350.4	320.1	323.1	314.9	341.3	400.1
Kraft Envelope Papers: Total	203.3	230.2	234.4	226.2	221.5	207.8	230.7
Brown Kraft	101.1	121.1	115.6	111.7	111.0	102.2	114.2
Bleached Kraft	102.2	109.1	118.8	114.5	110.5	105.6	116.5
Other	112.5	117.0	147.8	146.0	135.8	127.0	135.9
Thin Papers	338.7	351.7	371.4	333.0	353.4	328.9	327.8
Cotton Fiber Papers	108.5	114.4	124.6	126.3	125.6	119.8	131.3
Bond and Writing	80.2	84.4	93.1	95.1	95.0	94.2	104.7
Other Business	15.6	16.3	16.6	14.3	14.2	11.8	11.6
Technical and Other	12.7	13.7	14.9	16.9	16.4	13.8	15.0
Bleached Bristols	1,051.6	1,102.5	978.2	931.7	960.3	862.5	933.9
Tabulating Index	338.0	310.6	217.0	202.3	152.8	123.2	109.7
Tag	177.1	207.7	208.7	177.7	194.3	168.9	190.9
File Folder	99.3	112.3	127.6	114.0	127.0	120.7	144.0
Index Bristol	135.6	143.4	137.9	147.0	143.4	130.4	136.4
Printing Bristol	46.4	51.3	53.0	52.1	51.1	49.6	55.2
Postcard	1.3	0.6	0.2	0.4	1.4	2.4	1.9
Coated Bristol	253.9	276.6	233.8	238.2	290.3	267.3	295.8
Total Packaging and Industrial Papers	5,817.6	5,879.6	5,905.4	5,570.5	5,555.8	5,300.0	5,632.9
Unbleached Kraft and Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	5,281.2	5,372.6	5,361.8	5,096.0	4,768.7 2/	4,570.2 2/	4,792.2
Unbleached Kraft Papers	3,935.6	3,998.4	4,096.0	3,950.8	3,880.7	3,688.2	3,806.5
Wrapping	156.4	156.3	149.6	115.7	106.6	92.8	100.5
Bag and Sack (Exc. Shipping Sack)	2,099.7	2,224.5	2,225.8	2,269.4	2,209.3	2,210.9	2,288.9
Shipping Sack	1,035.0	990.3	1,085.8	1,033.3	1,014.6	895.1	878.7
Other Converting	644.5	627.3	634.8	532.4	550.3	489.4	538.4
Bleached Packaging Papers (Census)	1,127.0*	1,115.2*	1,031.9	943.5	N.A.	N.A.	N.A.
Wrapping	136.1	154.2	118.9	102.6	47.3 2/	44.6	46.7
Bag and Sack (Exc. Shipping Sack)	304.1	276.7	250.4	228.6	217.1 2/	222.4	239.8
Shipping Sack	106.8	91.6	102.4	92.0	73.9 2/	77.9	88.4
Other Converting 1/	580.0	592.7	560.2	520.3)			
Glassine, Grsprf and Veg. Parch. (Census)	218.6	259.0	233.9	201.7)	1,336.8 2/	1,266.9 2/	1,451.5 2/
Special Industrial Papers (Census)	536.4	507.0	543.6	474.5)			
Total Tissue Papers	4,285.2	4,214.8	4,520.5	4,375.0	4,517.6	4,437.7	4,789.3 3/
Total Sanitary Tissue Stock	4,069.6	4,017.4	4,324.5	4,221.1	4,366.9	4,289.4	4,617.0
Toilet Tissue	1,660.2	1,643.2	1,742.4	1,651.5	1,714.1	1,748.2	1,835.2
Facial Tissue Stock	336.0	329.0	357.9	353.3	369.4	359.3	389.3
Napkin Stock	491.9	493.1	537.2	554.7	577.6	606.2	532.7
Towelling	1,353.4	1,317.6	1,404.0	1,376.4	1,415.3	1,334.1	1,580.0
Wiper Stock	43.8	44.8	58.8	58.1	77.5	50.8	86.4
Other Sanitary Tissue	184.3	189.6	224.2	227.1	213.1	190.8	193.4
Total All Other Tissue	216.0	197.4	196.0	153.9	150.8	148.4	172.3

1/ Excludes Bleached Kraft Envelope Paper 2/ API data R - Revised P - Preliminary

3/ 1983 data may not be comparable to 1982, due to changes in procedures in calculating the total industry shipments.

NOTE (Census): Current Industrial Report, Pulp, Paper and Board

* Data overstated by about 10%, based on 1980 revision of 1979 data

N.A. - Not Available

TABLE III

PAPERBOARD PRODUCTION 1955-1983

BY END USE

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC USE Total	Linerboard	Corrugating Material	Chip and Filler Boards
1955	14,043,700	7,244,200	4,789,600	2,165,400	289,200
1956	14,371,600	7,451,300	4,933,400	2,249,500	268,400
1957	14,181,900	7,337,200	4,869,700	2,215,600	251,900
1958	14,237,000	7,259,200	4,818,900	2,191,300	249,000
1959	15,972,000	8,232,000	5,475,400	2,498,800	257,800
1960	15,926,500	8,186,600	5,474,800	2,461,000	250,800
1961	16,727,300	8,661,300	5,753,900	2,649,300	258,100
1962	17,847,400	9,299,000	6,216,500	2,822,100	260,400
1963	18,593,600	9,638,300	6,414,000	2,961,800	262,500
1964	19,953,800	10,341,900	6,907,500	3,165,100	269,300
1965	21,331,500	11,199,100	7,480,600	3,438,200	280,300
1966	23,178,600	12,459,600	8,347,300	3,799,800	312,500
1967	22,819,300	12,248,600	8,215,600	3,743,500	289,500
1968	24,903,600	13,388,400	9,043,700	4,061,900	282,800
1969	26,375,700	14,396,400	9,692,500	4,395,400	308,600
1970	25,383,000	13,964,300	9,403,100	4,264,000	297,200
1971	26,037,000	14,353,000	9,530,800	4,519,700	302,500
1972	28,502,500	16,019,000	10,856,500	4,846,500	315,900
1973	29,571,500	16,928,100	11,355,900	5,255,000	317,100
1974	28,914,900	16,767,000	11,305,400	5,179,200	282,300
1975	24,755,700	14,586,200	9,854,200	4,449,300	282,600
1976	28,439,500	16,700,200	11,375,900	5,061,500	262,900
1977	28,953,100	17,167,300	11,695,700	5,207,900	263,700
1978	30,274,900	17,908,200	12,133,700	5,503,100	271,500
1979	31,428,900	18,824,800	12,819,500	5,775,900	229,300
1980	30,952,300	18,070,200	12,393,100	5,445,600	231,500
1981	31,232,200	19,040,000	13,078,500	5,702,100	259,500
1982	29,065,300	17,507,500	11,935,500	5,341,800	230,200
1983	32,176,700	19,173,000	13,124,700	5,838,100	210,200

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1983

BY END USE

TONS

YEAR	BOXBOARD-DOMESTIC USE				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
1955	4,407,400	2,938,800	636,700	831,900	2,392,100
1956	4,530,300	2,970,900	636,700	922,700	2,390,000
1957	4,513,400	3,020,800	568,200	924,400	2,331,300
1958	4,533,300	3,032,500	538,600	962,200	2,444,500
1959	4,911,400	3,285,900	576,100	1,049,400	2,828,600
1960	4,894,900	3,291,200	525,100	1,078,600	2,845,000
1961	5,007,500	3,374,800	496,800	1,135,900	3,058,500
1962	5,265,200	3,501,800	523,800	1,239,600	3,283,200
1963	5,417,200	3,635,800	526,800	1,254,600	3,538,100
1964	5,580,800	3,752,300	534,000	1,294,500	4,031,100
1965	5,811,200	3,879,600	547,300	1,384,300	4,321,200
1966	6,075,900	4,040,300	559,700	1,475,900	4,643,100
1967	5,973,100	4,020,700	496,100	1,456,300	4,597,600
1968	6,334,000	4,218,300	519,500	1,596,200	5,181,200
1969	6,424,800	4,261,600	498,600	1,664,600	5,554,500
1970	6,238,700	4,079,700	466,500	1,692,500	5,180,000
1971	6,233,600	4,139,400	447,900	1,646,300	5,450,400
1972	6,551,000	4,439,800	455,100	1,656,100	5,932,500
1973	6,764,300	4,704,500	465,300	1,594,500	5,879,200
1974	6,399,000	4,426,500	403,600	1,568,900	5,748,900
1975	5,663,800	3,896,400	304,500	1,462,900	4,505,700
1976	6,564,700	4,714,600	331,500	1,518,600	5,174,500
1977	6,332,200	4,546,700	302,500	1,483,100	5,453,500
1978	6,501,200	4,702,400	332,700	1,466,100	5,865,500
1979	6,469,200	4,720,500	306,000	1,442,700	6,135,000
1980	6,153,100	4,489,900	241,500	1,421,700	6,729,000
1981	6,216,100	4,587,600	236,000	1,392,500	5,976,100
1982	5,841,000	4,333,700	223,600	1,283,700	5,716,900
1983	6,261,000	4,646,000	256,300	1,358,800	6,742,700

TABLE IV

CONTAINERBOARD PRODUCTION 1955-1983

FOR DOMESTIC USE

TONS

YEAR	CONTAINERBOARD TOTAL	LINERBOARD		
		Total	Kraft	Recycled
1955	7,244,200	4,789,600	3,947,400	842,200
1956	7,451,300	4,933,400	4,139,600	793,800
1957	7,337,200	4,869,700	4,097,900	771,800
1958	7,259,200	4,818,900	4,110,200	708,700
1959	8,232,000	5,475,400	4,701,000	774,400
1960	8,186,600	5,474,800	4,731,200	743,600
1961	8,661,300	5,753,900	5,095,700	658,200
1962	9,299,000	6,216,500	5,514,700	701,800
1963	9,638,300	6,414,000	5,706,100	707,900
1964	10,341,900	6,907,500	6,188,000	719,500
1965	11,199,100	7,480,600	6,698,100	782,500
1966	12,459,600	8,347,300	7,550,200	797,100
1967	12,248,600	8,215,600	7,693,300	522,300
1968	13,388,400	9,043,700	8,612,200	431,500
1969	14,396,400	9,692,500	9,345,300	347,200
1970	13,964,300	9,403,100	9,133,400	269,700
1971	14,353,000	9,530,800	9,249,100	281,700
1972	16,019,000	10,856,500	10,577,600	278,900
1973	16,928,100	11,355,900	11,066,900	289,100
1974	16,767,000	11,305,400	10,838,400	467,100
1975	14,586,200	9,854,200	9,646,900	207,300
1976	16,700,200	11,375,900	11,093,200	282,700
1977	17,167,300	11,695,700	11,354,400	341,400
1978	17,908,200	12,133,700	11,877,200	256,400
1979	18,824,800	12,819,500	12,417,300	402,300
1980	18,070,200	12,393,100	11,948,600	444,500
1981	19,040,000	13,078,500	12,754,300	324,200
1982	17,507,500	11,935,500	11,656,500	279,000
1983	19,173,000	13,124,700	12,835,600	289,100

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955-1983

FOR DOMESTIC USE

TONS

YEAR	CORRUGATING MATERIAL			CHIP & FILLER BOARDS
	Total	Semi-Chemical	Recycled	Total
1955	2,165,400	1,470,200	695,200	289,200
1956	2,249,500	1,551,700	697,800	268,400
1957	2,215,600	1,557,800	657,800	251,900
1958	2,191,300	1,486,200	705,100	249,000
1959	2,498,800	1,786,100	712,700	257,800
1960	2,461,000	1,788,900	672,100	250,800
1961	2,649,300	2,023,500	625,800	258,100
1962	2,822,100	2,188,800	633,300	260,400
1963	2,961,800	2,287,100	674,700	262,500
1964	3,165,100	2,447,400	717,700	269,300
1965	3,438,200	2,638,200	800,000	280,300
1966	3,799,800	2,909,800	890,000	312,500
1967	3,743,500	2,982,100	761,400	289,500
1968	4,061,900	3,371,200	690,700	282,800
1969	4,395,400	3,617,000	778,400	308,000
1970	4,264,000	3,404,700	859,300	297,200
1971	4,519,700	3,580,200	939,500	302,500
1972	4,846,500	3,874,200	972,300	315,900
1973	5,255,000	4,126,500	1,128,500	317,100
1974	5,179,200	4,010,300	1,169,000	282,300
1975	4,449,300	3,579,400	870,000	282,600
1976	5,061,500	3,986,500	1,075,100	262,900
1977	5,207,900	4,128,200	1,079,700	263,700
1978	5,503,100	4,305,300	1,197,800	271,500
1979	5,775,900	4,573,600	1,202,300	229,300
1980	5,445,600	4,398,500	1,047,100	231,500
1981	5,702,100	4,561,200	1,140,900	259,500
1982	5,341,800	4,202,500	1,139,300	230,200
1983	5,838,100	4,532,700	1,305,400	210,200

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1983

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS

YEAR	Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses*	Linerboard
1960	571,000	745,200	287,400	123,700	136,200	76,000
1961	600,500	797,600	312,900	127,900	146,100	103,500
1962	678,500	865,100	324,400	148,400	139,200	124,200
1963	677,100	943,000	325,300	160,200	153,400	124,200
1964	692,000	988,800	329,200	178,800	182,300	101,100
1965	752,100	1,051,800	339,000	202,100	182,600	75,000
1966	783,200	1,100,700	367,200	232,100	200,400	100,300
1967	772,800	1,133,800	368,600	247,300	171,400	89,500
1968	848,800	1,234,100	412,000	258,900	195,100	104,900
1969	884,600	1,346,000	416,200	282,200	200,900	113,600
1970	940,700	1,265,900	386,900	287,200	221,600	102,800
1971	918,800	1,394,900	366,700	278,100	280,900	108,200
1972	894,400	1,575,700	395,600	315,900	308,700	117,200
1973	871,200	1,730,300	410,400	296,600	348,500	114,400
1974	850,200	1,678,700	415,800	289,800	382,700	92,700
1975	865,800	1,458,000	350,600	234,200	315,800	76,700
1976	822,900	1,799,500	412,300	266,800	402,200	91,400
1977	808,700	1,592,000	401,300	262,400	525,200	80,200
1978	731,200	1,763,400	418,500	307,100	594,900	109,500
1979**	718,700	1,713,600	432,000	274,100	686,900	110,900
1980	677,600	1,574,700	419,500	298,400	739,300	96,300
1981	631,800	1,655,000	441,600	287,400	738,700	100,600
1982	590,500	1,566,900	374,800	274,500	708,200	93,400
1983	606,900	1,724,600	426,400	281,100	700,300	115,000

* - Includes Exports
** - Starting in 1979 lightweight cup is included with heavyweight cup.

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1983

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS

	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
YEAR	Total Packaging Paperboard	Milk Carton and Food Service	Balance of Packaging Uses	Total	TOTAL
1960	1,939,500	1,078,600	860,900	119,700	2,059,200
1961	2,088,500	1,135,900	952,600	151,500	2,240,000
1962	2,279,800	1,239,600	1,040,200	173,600	2,453,400
1963	2,383,200	1,254,600	1,128,600	181,800	2,565,000
1964	2,472,200	1,294,500	1,177,700	220,800	2,693,000
1965	2,602,600	1,384,300	1,218,300	244,400	2,847,000
1966	2,783,900	1,475,900	1,308,000	301,400	3,085,300
1967	2,783,400	1,456,300	1,327,100	273,800	3,057,200
1968	3,053,800	1,596,200	1,457,600	314,100	3,367,900
1969	3,243,500	1,664,600	1,578,900	316,400	3,559,900
1970	3,205,100	1,692,500	1,512,600	167,800	3,372,900
1971	3,347,600	1,646,300	1,701,300	60,500	3,408,100
1972	3,607,500	1,656,100	1,951,400	101,800	3,709,300
1973	3,771,400	1,594,500	2,176,900	81,500	3,852,900
1974	3,709,800	1,568,900	2,140,900	59,500	3,769,300
1975	3,301,000	1,462,900	1,838,200	40,300	3,341,400
1976	3,795,200	1,518,600	2,275,600	43,400	3,83b,500
1977	3,669,700	1,483,100	2,186,600	47,300	3,717,000
1978	3,924,700	1,466,100	2,458,600	47,700	3,972,400
1979	3,936,200	1,442,700	2,493,500	61,900	3,998,100
1980	3,806,000	1,421,700	2,384,300	56,200	3,862,300
1981	3,855,100	1,392,500	2,462,600	54,800	3,909,900
1982	3,608,400	1,283,700	2,324,700	56,400	3,664,700
1983	3,854,300	1,358,800	2,495,500	71,600	3,925,800

TABLE VI

PAPERBOARD PRODUCTION BY REGION

1965 - 1983

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH EASTERN					
1965	2,874,700	710,800	192,700	481,100	37,000
1966	2,992,100	767,700	208,100	521,400	38,200
1967	2,810,100	695,200	121,500	539,000	34,700
1968	2,820,900	675,700	100,900	534,600	40,200
1969	2,769,600	687,000	83,000	569,200	34,800
1970	2,627,800	653,400	60,100	556,600	36,700
1971	2,525,300	634,800	54,400	551,100	29,300
1972	2,622,700	645,800	54,700	562,300	28,800
1973	2,733,800	725,300	56,900	615,300	53,100
1974	2,677,500	852,100	152,700	642,000	57,400
1975	2,052,000	536,400	35,200	445,400	55,800
1976	2,255,000	566,200	70,800	448,200	47,200
1977	2,247,100	562,800	70,800	446,600	45,500
1978	2,284,400	561,300	37,400	470,200	53,700
1979	2,259,800	564,200	61,400	456,700	46,100
1980	2,042,800	486,900	27,300	415,200	44,400
1981	1,867,700	369,900	-	328,500	41,400
1982	1,651,800	342,700	10,800	295,600	36,400
1983	1,891,100	380,300	45,600	317,800	16,900
SOUTHERN					
1965	11,270,100	6,680,400	5,330,100	1,318,300	32,000
1966	12,379,900	7,362,500	5,852,500	1,468,800	41,200
1967	12,537,100	7,435,600	5,964,900	1,435,600	35,100
1968	14,081,800	8,313,400	6,740,600	1,538,200	34,600
1969	15,433,100	9,181,100	7,488,200	1,651,400	41,500
1970	15,078,400	8,961,400	7,306,700	1,618,400	36,300
1971	15,782,300	9,330,600	7,507,500	1,789,600	33,500
1972	17,484,000	10,671,200	8,658,700	1,988,000	24,500
1973	18,179,900	11,257,000	9,083,700	2,158,900	14,400
1974	17,878,400	11,006,800	8,883,300	2,111,000	12,400
1975	15,752,600	9,882,100	7,957,700	1,860,900	63,400
1976	18,121,100	11,400,600	9,178,200	2,181,400	41,100
1977	18,223,100	11,541,000	9,299,000	2,199,400	42,700
1978	19,540,200	12,268,700	9,890,100	2,331,500	47,100
1979	20,219,100	12,692,100	10,280,500	2,376,900	34,700
1980	20,192,200	12,119,900	9,897,500	2,196,400	26,000
1981	20,442,000	12,863,000	10,527,900	2,301,000	34,100
1982	19,242,700	11,872,500	9,682,400	2,157,400	32,700
1983	20,930,300	12,864,200	10,546,400	2,280,500	37,300

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1983

TONS

YEAR	BOXBOARD-DOMESTIC Total	Folding	Set-Up	Milk Carton & Food Service	ALL OTHER Total
NORTH EASTERN					
1965	1,293,000	972,100	248,800	72,100	870,900
1966	1,302,900	989,600	246,000	67,300	921,500
1967	1,233,600	954,800	214,800	64,000	881,300
1968	1,274,200	991,100	220,900	62,200	871,000
1969	1,178,800	911,900	202,200	64,700	903,800
1970	1,108,100	851,100	194,100	62,900	866,300
1971	1,003,900	767,100	176,200	60,600	886,600
1972	1,020,900	788,400	181,300	51,100	956,100
1973	961,900	752,200	181,000	28,700	1,046,700
1974	861,600	679,800	154,200	27,600	963,800
1975	724,400	582,000	116,500	26,000	791,200
1976	841,000	690,800	120,900	29,400	847,900
1977	865,000	735,400	102,500	27,200	819,300
1978	861,000	723,300	112,700	25,000	862,100
1979	840,900	721,900	85,500	33,500	854,700
1980	787,800	680,400	72,300	35,100	768,000
1981	780,100	687,900	63,400	28,800	717,700
1982	678,000	593,300	59,400	25,400	631,000
1983	730,900	631,000	74,100	25,800	779,900
SOUTHERN					
1965	2,428,400	1,216,200	122,300	1,089,900	2,161,300
1966	2,649,200	1,309,900	128,400	1,210,900	2,368,200
1967	2,666,500	1,385,000	114,100	1,167,400	2,435,000
1968	2,944,000	1,490,200	127,800	1,326,000	2,824,400
1969	3,163,200	1,634,600	122,600	1,406,000	3,088,800
1970	3,166,000	1,628,800	113,300	1,423,900	2,951,000
1971	3,320,500	1,784,600	105,300	1,430,600	3,131,200
1972	3,519,300	1,964,100	108,400	1,446,800	3,293,600
1973	3,776,400	2,244,400	118,000	1,414,000	3,146,500
1974	3,660,200	2,168,400	105,000	1,386,800	3,211,400
1975	3,352,700	2,000,100	89,500	1,263,000	2,517,800
1976	3,931,400	2,500,700	99,800	1,330,800	2,789,100
1977	3,700,600	2,316,700	96,700	1,287,300	2,981,400
1978	3,939,800	2,534,200	104,500	1,301,100	3,331,700
1979	3,974,000	2,592,700	104,500	1,276,800	3,553,000
1980	3,149,900	1,795,200	100,400	1,254,400	4,922,400
1981	3,201,000	1,863,000	105,300	1,232,700	4,378,100
1982	3,012,800	1,761,300	94,500	1,157,000	4,357,400
1983	3,264,500	1,957,900	98,800	1,207,800	4,801,600

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1983

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD - DOMESTIC			
		Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH CENTRAL					
1965	4,031,600	1,796,600	408,700	1,203,800	184,100
1966	4,191,700	1,880,100	400,700	1,282,600	196,800
1967	3,928,600	1,677,600	252,600	1,240,100	184,900
1968	4,174,400	1,802,200	190,100	1,431,400	180,700
1969	4,272,100	1,916,600	160,200	1,539,300	217,200
1970	3,936,000	1,788,900	110,300	1,471,000	207,600
1971	4,041,100	1,854,000	101,800	1,534,100	218,100
1972	4,245,500	1,926,000	106,400	1,597,400	222,200
1973	4,360,400	2,031,900	111,000	1,697,300	223,600
1974	4,186,500	2,005,700	176,600	1,637,900	191,200
1975	3,367,200	1,655,400	63,900	1,448,600	142,900
1976	3,928,000	1,869,900	57,000	1,663,900	148,900
1977	4,091,700	2,010,300	117,200	1,734,300	158,800
1978	4,164,200	2,127,500	98,600	1,870,400	158,500
1979	4,352,900	2,334,900	165,800	2,029,300	139,800
1980	4,137,600	2,271,100	191,400	1,943,500	136,100
1981	4,288,300	2,417,000	143,300	2,124,800	148,800
1982	3,979,300	2,210,000	103,900	1,984,300	121,800
1983	4,396,700	2,413,300	60,800	2,227,000	125,500
PACIFIC COAST					
1965	3,155,100	2,011,400	1,549,000	435,100	27,300
1966	3,614,900	2,449,300	1,886,000	527,100	36,300
1967	3,543,500	2,440,300	1,876,600	528,900	34,800
1968	3,826,500	2,597,100	2,012,000	557,800	27,300
1969	3,900,900	2,611,800	1,961,100	635,600	15,100
1970	3,740,800	2,560,600	1,926,000	618,000	16,600
1971	3,688,300	2,533,600	1,867,000	644,900	21,600
1972	4,150,200	2,776,000	2,036,800	698,800	40,400
1973	4,297,500	2,914,000	2,104,400	783,500	16,100
1974	4,172,500	2,902,400	2,092,900	788,300	21,200
1975	3,583,900	2,512,300	1,797,400	694,400	20,500
1976	4,135,300	2,863,500	2,069,900	768,000	25,600
1977	4,391,300	3,053,100	2,208,800	827,600	16,800
1978	4,286,200	2,950,800	2,107,500	831,000	12,300
1979	4,597,200	3,233,600	2,311,800	913,000	8,800
1980	4,579,700	3,192,300	2,276,800	890,500	25,000
1981	4,634,300	3,390,200	2,407,300	947,800	35,100
1982	4,191,700	3,082,400	2,138,500	904,600	39,300
1983	4,958,600	3,515,100	2,471,800	1,012,800	30,500

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1983

TONS

YEAR	BOXBOARD-DOMESTIC Total	Folding	Set-Up	Milk Carton & Food Service	ALL OTHER Total
NORTH CENTRAL					
1965	1,517,300	1,288,600	150,000	78,700	717,700
1966	1,541,900	1,316,300	160,300	65,300	769,700
1967	1,489,300	1,288,300	140,800	60,200	761,700
1968	1,489,100	1,295,100	150,200	43,800	883,100
1969	1,458,000	1,279,300	154,100	24,600	897,500
1970	1,338,300	1,194,300	133,500	10,500	808,800
1971	1,345,500	1,195,800	140,900	8,800	841,600
1972	1,396,300	1,246,000	141,800	8,500	923,200
1973	1,379,400	1,236,300	142,700	400	949,200
1974	1,262,300	1,137,600	124,600	100	918,500
1975	1,018,400	937,200	80,600	600	693,400
1976	1,177,900	1,089,800	88,000	100	880,200
1977	1,165,200	1,077,500	87,700	-	916,200
1978	1,123,900	1,031,800	92,100	-	912,800
1979	1,105,500	1,009,700	95,800	-	912,500
1980	1,030,600	978,200	52,500	-	835,900
1981	1,062,300	1,011,800	50,500	-	809,000
1982	1,035,100	984,200	50,900	-	734,200
1983	1,112,100	1,049,800	62,300	-	871,300
PACIFIC COAST					
1965	572,600	402,800	26,200	143,600	571,100
1966	582,000	424,500	25,000	132,500	583,600
1967	583,600	392,600	26,300	164,700	519,600
1968	626,800	442,000	20,600	164,200	602,600
1969	624,800	435,800	19,700	169,300	664,300
1970	626,200	405,400	25,500	195,300	554,000
1971	563,700	391,900	25,400	146,400	591,000
1972	614,700	441,300	23,600	149,800	759,600
1973	646,600	471,600	23,600	151,400	736,900
1974	615,000	440,800	19,900	154,300	655,100
1975	568,300	377,200	17,800	173,300	503,300
1976	614,500	433,300	22,800	158,400	657,300
1977	601,400	417,100	15,700	168,600	736,800
1978	576,500	413,100	23,400	140,000	759,000
1979	548,800	396,200	20,200	132,400	814,800
1980	504,400	355,700	16,400	132,300	883,000
1981	500,900	353,100	16,700	131,100	743,100
1982	424,500	304,400	18,800	101,300	684,800
1983	443,500	297,200	21,100	125,200	1,000,000

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VII

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1983

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1968	13,388,400	9,043,700	4,061,900	282,800	6,334,000	4,218,300	519,500
1969	14,396,500	9,692,500	4,395,400	308,600	6,424,800	4,261,600	498,600
1970	13,964,300	9,403,100	4,264,000	297,200	6,238,700	4,079,700	466,500
1971	14,353,000	9,530,800	4,519,700	302,500	6,233,600	4,139,400	447,900
1972	16,018,900	10,856,500	4,846,500	315,900	6,551,000	4,439,800	455,100
1973	16,928,100	11,355,900	5,255,000	317,100	6,764,300	4,704,500	465,300
1974	16,767,000	11,305,400	5,179,200	282,300	6,399,000	4,426,500	403,600
1975	14,586,200	9,854,200	4,449,300	282,600	5,663,800	3,896,400	304,500
1976	16,700,200	11,375,900	5,061,500	262,900	6,564,700	4,714,600	331,500
1977	17,167,300	11,695,700	5,207,900	263,700	6,332,200	4,546,700	302,500
1978	17,908,200	12,133,700	5,503,100	271,500	6,501,200	4,702,400	332,700
1979	18,824,800	12,819,600	5,775,900	229,300	6,469,200	4,720,500	306,000
1980	18,070,200	12,393,100	5,445,600	231,500	6,153,100	4,489,900	241,500
1981	19,040,000	13,078,500	5,702,100	259,500	6,216,100	4,587,600	236,000
1982	17,507,600	11,935,500	5,341,800	230,200	5,841,000	4,333,700	223,600
1983	19,173,000	13,124,700	5,838,100	210,200	6,261,000	4,646,000	256,300
Unbleached Kraft							
1968	8,535,500	8,511,400	7,400	16,700	261,000	261,000	-
1969	9,242,100	9,210,700	8,100	23,300	287,200	287,200	-
1970	9,043,900	9,014,600	3,800	25,500	343,400	343,400	-
1971	9,155,300	9,124,700	1,100	29,500	339,600	339,600	-
1972	10,469,900	10,447,800	-	22,100	389,700	389,700	-
1973	10,951,600	10,939,100	2,300	10,200	454,800	454,800	-
1974	10,754,200	10,739,000	3,800	11,500	469,700	469,700	-
1975	9,586,000	9,565,200	8,700	12,100	463,000	463,000	-
1976	11,023,900	10,993,700	20,200	10,100	577,500	577,500	-
1977	11,283,000	11,269,400	-	13,600	588,000	588,000	-
1978	11,779,700	11,761,600	-	18,100	617,600	617,600	-
1979	12,306,400	12,306,400	-	-	698,400	698,400	-
1980	11,852,300	11,852,300	-	-	680,400	680,400	-
1981	12,653,700	12,653,700	-	-	671,900	671,900	-
1982	11,563,100	11,563,100	-	-	690,600	690,600	-
1983	12,720,600	12,720,600	-	-	710,100	710,100	
Semichemical							
1968	3,366,600	-	3,363,800	2,800	-	-	-
1969	3,611,100	-	3,608,900	2,200	-	-	-
1970	3,400,900	-	3,400,900	-	-	-	-
1971	3,579,100	-	3,579,100	-	-	-	-
1972	3,874,200	-	3,874,200	-	-	-	-
1973	4,124,300	-	4,124,300	-	-	-	-
1974	4,006,500	-	4,006,500	-	-	-	-
1975	3,570,600	-	3,570,600	-	-	-	-
1976	3,966,300	-	3,966,300	-	-	-	-
1977	4,128,200	-	4,128,200	-	-	-	-
1978	4,305,300	-	4,305,300	-	-	-	-
1979	4,573,600	-	4,573,600	-	-	-	-
1980	4,398,500	-	4,398,500	-	-	-	-
1981	4,561,200	-	4,561,200	-	-	-	-
1982	4,202,500	-	4,202,500	-	-	-	-
1983	4,532,700	-	4,532,700	-	-	-	-

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1983

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES Total
Total Paperboard							
1968	1,596,200	3,585,200	784,000	779,900	2,021,300	1,596,000	24,903,600
1969	1,664,600	3,694,400	822,600	860,500	2,011,300	1,860,100	26,375,700
1970	1,692,500	3,280,700	775,700	887,300	1,617,700	1,899,400	25,383,000
1971	1,646,300	3,335,000	935,700	925,700	1,473,500	2,115,400	26,037,000
1972	1,656,100	3,701,100	1,016,600	1,065,500	1,619,000	2,231,400	28,502,500
1973	1,594,900	3,864,900	1,050,300	1,145,400	1,668,200	2,015,200	29,571,400
1974	1,568,900	3,599,400	984,200	1,128,500	1,486,800	2,149,500	28,914,900
1975	1,462,900	3,052,200	893,800	907,500	1,250,900	1,453,500	24,755,700
1976	1,518,600	3,465,300	984,500	1,016,500	1,464,300	1,709,200	28,439,500
1977	1,483,100	3,623,100	1,056,800	1,075,900	1,490,400	1,830,500	28,953,100
1978	1,466,100	3,825,500	1,094,000	1,163,000	1,568,500	2,040,000	30,274,900
1979	1,442,700	3,873,000	1,179,900	1,177,200	1,515,900	2,262,000	31,428,900
1980	1,421,700	3,394,800	918,800	1,077,600	1,398,400	3,334,100	30,952,300
1981	1,392,500	3,354,000	887,600	1,114,600	1,351,700	2,622,000	31,232,200
1982	1,283,700	3,063,000	805,200	1,046,200	1,211,700	2,653,800	29,065,300
1983	1,358,800	3,730,600	1,053,823	1,210,800	1,466,000	3,012,100	32,176,700
Unbleached Kraft							
1968	-	584,600	-	175,400	409,200	1,380,700	10,761,800
1969	-	604,200	-	187,300	416,900	1,682,800	11,816,300
1970	-	470,400	-	175,400	295,000	1,683,400	11,541,100
1971	-	470,900	-	194,500	276,400	1,834,300	11,800,100
1972	-	521,500	-	223,200	298,300	1,887,500	13,268,700
1973	-	559,300	-	226,200	333,100	1,596,700	13,562,500
1974	-	526,300	-	231,000	295,200	1,582,700	13,332,900
1975	-	435,900	-	175,900	260,000	1,058,000	11,542,800
1976	-	483,500	-	217,500	266,000	1,247,300	13,332,200
1977	-	490,300	-	227,800	262,500	1,289,600	13,650,800
1978	-	508,900	-	250,600	258,300	1,466,300	14,372,500
1979	-	500,800	-	267,000	233,800	1,645,300	15,151,000
1980	-	382,800	-	226,400	156,400	2,379,800	15,295,200
1981	-	390,200	-	219,300	170,900	1,886,600	15,602,400
1982	-	349,700	-	192,900	156,800	1,931,400	14,534,800
1983	-	416,000	-	204,300	206,600	2,280,700	16,122,300
Semichemical							
1968	-	14,400	-	12,300	2,100	94,000	3,475,000
1969	-	33,000	-	13,500	19,500	52,400	3,696,500
1970	-	33,200	-	23,700	9,500	84,300	3,518,400
1971	-	16,900	-	14,100	2,800	104,000	3,700,000
1972	-	23,600	-	17,700	5,900	111,700	4,009,600
1973	-	28,600	-	18,300	10,300	107,400	4,260,300
1974	-	23,300	-	17,400	6,000	145,500	4,175,400
1975	-	15,900	-	14,000	1,900	115,400	3,701,800
1976	-	19,300	-	18,100	1,200	119,300	4,105,000
1977	-	14,300	-	14,300	-	121,900	4,264,400
1978	-	14,800	-	14,600	200	119,200	4,439,300
1979	-	17,400	-	10,800	6,600	98,200	4,689,100
1980	-	2,700	-	2,400	300	322,300	4,723,500
1981	-	2,700	-	2,600	100	155,200	4,719,200
1982	-	1,800	-	1,300	500	184,900	4,389,300
1983	-	5,100	-	-	5,100	192,600	4,730,400

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1983

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1968	125,000	125,000	-	-	2,773,900	1,226,900	-
1969	134,700	134,700	-	-	2,970,300	1,345,900	-
1970	118,800	118,800	-	-	2,912,300	1,263,300	-
1971	124,400	124,400	-	-	2,996,400	1,392,100	-
1972	129,800	129,800	-	-	3,196,300	1,572,800	-
1973	127,700	127,700	-	-	3,322,600	1,728,200	-
1974	99,400	99,400	-	-	3,244,600	1,675,900	-
1975	81,800	81,800	-	-	2,917,700	1,455,600	-
1976	99,500	99,500	-	-	3,315,700	1,797,200	-
1977	85,000	85,000	-	-	3,074,500	1,591,500	
1978	115,700	115,700	-	-	3,229,500	1,763,400	-
1979	110,900	110,900	-	-	3,156,200	1,713,600	-
1980	96,300	96,300	-	-	2,996,400	1,574,700	-
1981	100,600	100,600	-	-	3,047,500	1,655,000	-
1982	93,400	93,400	-	-	2,850,600	1,566,900	-
1983	115,000	115,000	-	-	3,083,400	1,724,600	
Recycled							
1968	1,361,300	407,300	690,700	263,300	3,299,100	2,730,400	519,500
1969	1,408,600	347,100	778,400	283,100	3,167,300	2,628,500	498,600
1970	1,400,700	269,700	859,300	271,800	2,983,000	2,473,000	466,500
1971	1,494,100	281,700	939,500	272,900	2,897,700	2,407,700	447,900
1972	1,545,000	278,900	972,300	293,800	2,964,900	2,477,200	455,100
1973	1,724,500	289,100	1,128,500	306,900	2,987,000	2,521,600	465,300
1974	1,906,800	467,100	1,169,000	270,800	2,684,800	2,280,900	403,600
1975	1,347,700	207,300	870,000	270,400	2,283,200	1,977,900	304,500
1976	1,610,500	282,700	1,075,100	252,800	2,671,600	2,340,000	331,500
1977	1,671,100	341,400	1,079,700	250,100	2,669,700	2,367,200	302,500
1978	1,707,600	256,400	1,197,800	253,400	2,654,100	2,321,400	332,700
1979	1,833,900	402,300	1,202,300	229,300	2,614,500	2,308,500	306,000
1980	1,723,100	444,500	1,047,100	231,500	2,476,300	2,234,800	241,500
1981	1,724,500	324,200	1,140,800	259,500	2,496,800	2,260,800	236,000
1982	1,648,500	279,000	1,139,300	230,200	2,299,800	2,076,200	223,600
1983	1,804,700	289,100	1,305,400	210,200	2,467,600	2,211,300	256,300

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1983

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES TOTAL
Solid Bleached							
1968	1,547,000	316,400	-	7,800	308,600	108,500	3,323,800
1969	1,624,400	327,700	-	8,300	319,400	108,100	3,540,800
1970	1,649,000	197,400	-	-	197,400	114,400	3,342,900
1971	1,604,300	104,000	-	-	104,000	156,500	3,381,300
1972	1,623,500	142,500	-	-	142,500	217,800	3,686,400
1973	1,594,400	133,500	-	-	133,500	280,300	3,864,000
1974	1,568,700	108,900	-	-	108,900	320,200	3,773,100
1975	1,462,100	87,500	-	-	87,500	256,200	3,343,300
1976	1,518,500	122,900	-	-	122,900	306,100	3,844,100
1977	1,483,100	172,400	-	-	172,400	389,400	3,721,300
1978	1,466,100	200,500	-	-	200,500	432,900	3,978,600
1979	1,442,700	234,300	-	-	234,300	496,700	3,998,100
1980	1,421,700	220,100	-	-	220,100	549,400	3,862,300
1981	1,392,500	205,300	-	-	205,300	556,600	3,909,900
1982	1,283,700	196,000	-	-	196,000	524,700	3,664,700
1983	1,358,800	213,000	-	-	213,000	514,500	3,925,800
Recycled							
1968	49,200	2,669,800	784,000	584,400	1,301,400	12,800	7,343,000
1969	40,200	2,729,500	822,600	651,400	1,255,500	16,800	7,322,300
1970	43,500	2,579,600	775,700	688,200	1,115,800	17,300	6,980,500
1971	42,100	2,743,100	935,700	717,100	1,090,300	20,600	7,155,500
1972	32,600	3,013,400	1,016,600	824,600	1,172,200	14,400	7,537,800
1973	100	3,142,500	1,050,300	900,900	1,191,300	30,800	7,884,600
1974	200	2,941,000	984,200	880,100	1,076,700	101,000	7,633,500
1975	800	2,512,900	893,800	717,600	901,500	23,900	6,167,700
1976	100	2,839,600	984,500	780,900	1,074,200	36,500	7,158,100
1977	-	2,946,100	1,056,800	833,700	1,055,500	29,600	7,316,500
1978	-	3,101,400	1,094,000	897,900	1,109,500	21,600	7,484,500
1979	-	3,120,500	1,179,900	899,400	1,041,220	21,800	7,590,700
1980	-	2,789,300	918,800	848,900	1,021,600	82,600	7,071,300
1981	-	2,755,700	887,600	892,700	975,300	23,800	7,000,700
1982	-	2,515,400	805,200	852,000	858,300	12,700	6,476,500
1983	-	3,101,600	1,053,800	1,006,500	1,041,300	24,300	7,398,200

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VIII

PAPERBOARD PRODUCTION

BY MONTHS

1983

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Containerboard-Domestic Use	1,543,000	1,427,600	1,637,200	1,549,300	1,661,500	1,583,200
Linerboard	1,049,600	974,600	1,129,800	1,072,000	1,139,000	1,072,600
Kraft	1,020,400	949,700	1,101,000	1,041,900	1,110,500	1,044,500
Recycled	29,200	24,900	28,800	30,200	28,500	28,100
Corrugating	474,100	435,700	488,400	457,500	504,700	491,600
Semichemical	366,500	329,700	376,200	364,600	396,100	378,800
Recycled	107,600	106,000	112,200	92,900	108,600	112,800
Container Chip	19,300	17,300	19,000	19,800	17,800	19,000
Boxboard-Domestic Use	457,800	424,800	493,500	462,500	478,400	454,900
Folding	323,100	300,900	345,800	320,900	327,000	315,500
Set-Up	19,300	18,900	22,300	20,300	21,800	22,200
Milk Carton & Food Service	115,500	104,900	125,400	121,200	129,600	117,200
All Other	591,000	558,200	633,600	618,700	674,300	657,200
Domestic	333,300	328,200	369,400	357,100	388,500	382,100
Export	257,700	230,000	264,200	261,600	285,800	275,100
TOTAL PAPERBOARD	2,591,700	2,410,500	2,764,200	2,630,500	2,814,200	2,695,300

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX

BOX PLANT CONSUMPTION

BY MONTHS

1982

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Linerboard and Corrugating Material	1,453,100	1,357,600	1,582,900	1,502,000	1,514,200	1,586,800
Total Containerboard	1,455,500	1,360,400	1,585,900	1,504,800	1,516,800	1,589,100

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE VIII (Cont.)

PAPERBOARD PRODUCTION

BY MONTHS

1983

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Containerboard-Domestic	1,523,200	1,654,200	1,650,800	1,756,400	1,721,500	1,465,100	19,173,000
Linerboard	1,035,500	1,137,900	1,147,400	1,207,500	1,180,300	978,600	13,124,700
Kraft	1,017,600	1,116,600	1,128,400	1,186,500	1,159,300	959,200	12,835,600
Recycled	17,900	21,300	18,900	21,000	20,900	19,400	289,100
Corrugating	468,900	498,200	484,800	530,100	528,500	475,500	5,838,100
Semichemical	366,000	384,700	378,000	409,200	411,700	371,100	4,532,700
Recycled	102,900	113,500	106,800	120,900	116,900	104,400	1,305,400
Container Chip	18,700	18,100	18,600	18,800	12,700	11,100	210,200
Boxboard-Domestic	435,100	467,400	455,100	500,800	485,600	435,100	5,550,900
Folding	317,700	333,900	327,100	363,300	353,100	307,500	3,935,900
Set-Up	18,000	24,600	22,700	26,200	23,200	16,700	256,300
Milk Carton & Food Service	99,400	108,900	105,300	111,300	109,200	110,900	1,358,800
All Other	620,200	650,700	644,200	643,400	595,500	565,900	7,452,800
Domestic	367,700	392,900	383,600	416,900	377,500	343,700	4,440,700
Export	252,500	257,800	260,700	226,500	218,100	222,200	3,012,100
TOTAL PAPERBOARD	2,578,400	2,772,300	2,750,100	2,900,700	2,802,600	2,466,100	32,176,700

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX (Cont.)

BOX PLANT CONSUMPTION

BY MONTHS

1983

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Linerboard and Corrugating Material	1,402,400	1,635,500	1,615,500	1,714,400	1,536,700	1,460,900	18,362,100
Total Containerboard	1,404,500	1,639,700	1,618,900	1,717,200	1,539,600	1,463,400	18,395,700

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE X

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1983

000 Short Tons	1959	1960	1961	1962	1963	1964
Production - Total	33,748	33,904	35,178	37,062	38,647	40,962
Total Paper	15,025	15,295	15,821	16,560	17,320	18,112
Total Paperboard	15,972	15,926	16,727	17,847	18,594	19,954
Unbleached Kraft E	5,214	5,342	5,814	6,316	6,750	7,600
Semichemical E	1,774	1,791	2,017	2,198	2,304	2,481
Bleached Kraft E *	2,000	2,039	2,218	2,429	2,539	2,666
Recycled E	6,984	6,754	6,678	6,905	7,001	7,207
Wet Machine Board	145	175	155	146	141	148
Building Paper	1,435	1,410	1,391	1,429	1,453	1,533
Insulating Board	1,171	1,098	1,084	1,080	1,139	1,215
New Supply						
Total Paper	20,120	20,490	20,928	21,781	22,475	23,748
Newsprint	7,118	7,329	7,294	7,460	7,498	8,051
Printing/Writing Papers	6,863	7,077	7,329	7,772	8,153	8,655
Uncoated Groundwood	933	960	933	942	990	1,053
Coated	1,967	2,096	2,138	2,266	2,398	2,572
Uncoated Free Sheet	3,051	3,076	3,239	3,431	3,609	3,824
Thin and Cotton Fiber	244	251	260	290	287	301
Bleached Bristols	668	694	759	843	869	905
Packaging and Ind. Conv. Papers	4,023	3,893	3,997	4,143	4,258	4,316
Unbleached Kraft	2,796	2,730	2,767	2,889	3,024	3,038
Other	1,227	1,163	1,230	1,254	1,234	1,278
Tissue	2,116	2,191	2,305	2,406	2,566	2,725
Total Paperboard	15,604	15,475	16,201	17,312	17,941	18,976
Unbleached Kraft	4,902	4,970	5,417	5,890	6,254	6,843
Semichemical	1,753	1,760	1,955	2,154	2,221	2,374
Bleached Board	1,983	2,016	2,186	2,396	2,500	2,621
Recycled	6,966	6,729	6,643	6,872	6,966	7,138
Construction and Other	2,752	2,675	2,610	2,644	2,733	2,917
Total All Grades	38,476	38,640	39,739	41,737	43,149	45,641
Paper and Products	20,072	20,441	20,953	21,794	22,438	23,689
Paperboard and Products	15,534	15,401	16,083	17,178	17,810	18,871
Total Including Products	38,358	38,517	39,646	41,616	42,981	45,477
Real G.N.P. - $ Bil., 1972 Prices Revised Series	**721.7**	**737.2**	**756.6**	**800.3**	**832.5**	**876.4**
New Supply to Real G.N.P - Revised						
Total Paper	27.879	27.794	27.661	27.216	26.997	27.097
Newsprint	9.863	9.942	9.640	9.322	9.007	9.186
Printing/Writing Papers	9.509	9.600	9.687	9.711	9.793	9.876
Uncoated Groundwood	1.293	1.302	1.233	1.177	1.189	1.201
Coated	2.726	2.843	2.826	2.832	2.881	2.934
Uncoated Free Sheet	4.228	4.173	4.281	4.287	4.335	4.364
Thin and Cotton Fiber	.338	.340	.344	.362	.345	.343
Bleached Bristols	.926	.941	1.003	1.053	1.044	1.032
Packaging and Ind. Conv. Papers	5.574	5.281	5.283	5.177	5.114	4.924
Unbleached Kraft	3.874	3.703	3.657	3.610	3.632	3.466
Other	1.700	1.578	1.626	1.567	1.482	1.458
Tissue	2.932	2.972	3.047	3.006	3.082	3.109
Total Paperboard	21.621	20.992	21.413	21.632	21.551	21.652
Unbleached Kraft	6.792	6.742	7.160	7.360	7.512	7.808
Semichemical	2.429	2.387	2.584	2.691	2.668	2.709
Bleached Board	2.748	2.735	2.889	2.994	3.003	2.991
Recycled	9.652	9.128	8.780	8.587	8.368	8.145
Construction and Other	3.813	3.629	3.450	3.304	3.283	3.328
Total All Grades	53.313	52.415	52.523	52.152	51.831	52.078
Paper and Products	27.812	27.727	27.694	27.232	26.953	27.030
Paperboard and Products	21.524	20.891	21.257	21.464	21.393	21.532
Total Including Products	53.150	52.248	52.400	52.000	51.629	51.891

* - About 5% of this total is bleached bristols that may also be included in total paper.

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and in part, on the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of the grades to the United States. New supply of paper and products and paperboard and products was calculated using the Census import and export totals for all grades. See Tables XXXIV and XXXV for the adjusted import and export data used. E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1983

000 Short Tons	1965	1966	1967	1968R	1969R	1970R
Production - Total	43,455	46,702	46,568	50,134	52,912	51,670
Total Paper	19,157	20,725	20,926	22,168	23,435	23,336
Total Paperboard	21,332	23,179	22,819	24,904	26,376	25,383
Unbleached Kraft	8,301E	9,303E	9,485E	10,762	11,816	11,541
Semichemical	2,681E	2,969E	3,057E	3,475	3,697	3,518
Bleached Kraft	2,818E*	3,053E*	3,060E*	3,324	3,541	3,343
Recycled	7,532E	7,853E	7,217E	7,343	7,322	6,981
Wet Machine Board	144	148	144	155	148	139
Building Paper	1,574	1,495	1,503	1,574	1,603	1,594
Insulating Board	1,248	1,155	1,176	1,333	1,352	1,219
New Supply						
Total Paper	25,197	27,323	27,231	28,263	29,959	29,633
Newsprint	8,510	9,268	9,165	9,307	9,959	9,797
Printing/Writing Papers	9,348	10,362	10,208	10,518	11,236	11,033
Uncoated Groundwood	1,069	1,217	1,163	1,219	1,306	1,310
Coated	2,767	3,039	3,041	3,045	3,240	3,167
Uncoated Free Sheet	4,198	4,676	4,584	4,799	5,195	5,132
Thin and Cotton Fiber	314	351	345	351	371	353
Bleached Bristols	1,000	1,079	1,077	1,104	1,124	1,071
Packaging and Ind. Conv. Papers	4,473	4,610	4,645	5,003	5,173	5,105
Unbleached Kraft	3,150	3,269	3,233	3,494	3,602	3,582
Other	1,323	1,341	1,412	1,509	1,571	1,523
Tissue	2,866	3,083	3,212	3,435	3,591	3,698
Total Paperboard	20,301	22,063	21,498	23,325	24,526	23,495
Unbleached Kraft	7,401	8,332	8,317	9,388	10,135	9,858
Semichemical	2,626	2,905	2,981	3,381	3,645	3,434
Bleached Board	2,771	2,994	2,999	3,216	3,432	3,229
Recycled	7,503	7,832	7,201	7,340	7,314	6,974
Construction and Other	2,972	2,789	2,825	3,073	3,105	2,972
Total All Grades	48,470	52,175	51,554	54,661	57,590	56,100
Paper and Products	25,130	27,386	27,238	28,303	30,002	29,764
Paperboard and Products	20,168	21,940	21,369	22,975	24,314	23,232
Total including Products	48,270	52,115	51,432	54,351	57,421	55,968
Real G.N.P.- $ Bil., 1972 Prices	**929.3**	**984.8**	**1,011.4**	**1,058.1**	**1,087.6**	**1,085.6**
Revised Series						
Ratio of New Supply to Real GNP - Revised						
Total Paper	27.114	27.745	26.924	26.711	27.546	27.296
Newsprint	9.157	9.411	9.062	8.796	9.157	9.025
Printing/Writing Papers	10.058	10.522	10.095	9.940	10.331	10.163
Uncoated Groundwood	1.150	1.236	1.150	1.152	1.201	1.207
Coated	2.977	3.086	3.007	2.878	2.979	2.917
Uncoated Free Sheet	4.517	4.748	4.533	4.536	4.777	4.727
Thin and Cotton Fiber	.338	.356	.341	.332	.341	.325
Bleached Bristols	1.076	1.096	1.064	1.043	1.033	.987
Packaging and Ind. Conv. Papers	4.814	4.681	4.593	4.728	4.756	4.703
Unbleached Kraft	3.390	3.319	3.197	3.302	3.312	3.300
Other	1.424	1.362	1.396	1.426	1.444	1.403
Tissue	3.084	3.131	3.176	3.246	3.302	3.406
Total Paperboard	21.846	22.404	21.255	22.044	22.551	21.641
Unbleached Kraft	7.964	8.461	8.223	8.873	9.319	9.081
Semichemical	2.826	2.950	2.947	3.195	3.351	3.163
Bleached Board	2.982	3.040	2.965	3.039	3.156	2.973
Recycled	8.074	7.953	7.120	6.937	6.725	6.424
Construction and Other	3.198	2.832	2.793	2.904	2.855	2.738
Total All Grades	52.158	52.980	50.973	51.660	52.951	51.676
Paper and Products	27.042	27.809	26.931	26.749	27.587	27.417
Paperboard and Products	21.702	22.279	21.128	21.713	22.356	21.400
Total Including Products	51.942	52.919	50.852	51.367	52.796	51.554

* - About 5% of this total is bleached bristols that may also be included in total paper
E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1983

000 Short Tons	1971R	1972R	1973R	1974R	1975R	1976R
Production - Total	53,162	57,434	59,900	59,175	51,096	58,459
Total Paper	23,704	25,340	26,775	26,976	23,361	26,684
Total Paperboard	26,037	28,502	29,571	28,915	24,756	28,440
Unbleached Kraft	11,800	13,268	13,563	13,333	11,543	13,332
Semichemical	,700	4,010	4,260	4,175	3,702	4,105
Bleached Kraft	3,381	3,686	3,864	3,773	3,343	3,844
Recycled	7,156	7,538	7,885	7,634	6,168	7,158
Wet Machine Board	138	148	149	144	115	130
Building Paper	1,837	1,915	1,858	1,845	1,615	1,771
Insulating Board	1,446	1,529	1,547	1,295	1,249	1,434
New Supply						
Total Paper	30,064	32,014	34,005	34,289	28,362	32,620
Newsprint	9,773	10,269	10,877	10,955	9,048	9,917
Printing/Writing Papers	11,311	12,329	13,512	13,590	10,948	13,296
Uncoated Groundwood	1,323	1,334	1,388	1,460	1,316	1,588
Coated	3,124	3,411	3,711	3,693	3,037	3,842
Uncoated Free Sheet	5,449	6,034	6,769	6,834	5,330	6,479
Thin and Cotton Fiber	338	390	410	401	334	363
Bleached Bristols	1,077	1,160	1,234	1,201	931	1,024
Packaging and Ind. Conv. Papers	5,163	5,459	5,600	5,682	4,419	5,241
Unbleached Kraft	3,598	3,791	3,916	4,086RS	3,190	3,728
Other	1,565	1,668	1,684	1,596RS	1,229	1,513
Tissue	3,817	3,957	4,016	4,062	3,948	4,166
Total Paperboard	23,938	26,279	27,590	26,799	23,311	26,744
Unbleached Kraft	9,976	11,381	11,972	11,760	10,485	12,089
Semichemical	3,596	3,898	4,153	4,029	3,587	3,986
Bleached Board	3,224	3,468	3,584	3,453	3,087	3,538
Recycled	7,142	7,532	7,881	7,557	6,152	7,131
Construction and Other	3,467	3,650	3,604	3,301	3,001	3,367
Total All Grades	57,469	61,943	65,199	64,389	54,673	62,731
Paper and Products	30,371	32,246	34,037	33,854	28,418	32,615
Paperboard and Products	23,613	26,142	27,362	26,288	22,811	26,161
Total Including Products	57,451	62,038	65,003	63,443	54,231	62,144
Real G.N.P.- $ Bil.,1972 Prices Revised Series	1,122.4	1,185.9	1,255.0R	1,248.0R	1,233.9R	1,298.2
Ratio of New Supply to Real G.N.P						
Total Paper	26.785	26.996	27.096	27.475	22.986	25.127
Newsprint	8.707	8.659	8.669	8.778	7.333	7.639
Printing/Writing Papers	10.078	10.396	10.767	10.889	8.873	10.242
Uncoated Groundwood	1.179	1.125	1.106	1.170	1.067	1.223
Coated	2.783	2.913	2.957	2.959	2.461	2.959
Uncoated Free Sheet	4.855	5.088	5.394	5.476	4.320	4.991
Thin and Cotton Fiber	.301	.328	.327	.321	.271	.280
Bleached Bristols	.960	.978	.983	.962	.755	.789
Packaging and Ind. Conv. Papers	4.600	4.604	4.462	4.553	3.581	4.037
Unbleached Kraft	3.206	3.197	3.120	3.274RS	2.585	2.872
Other	1.394	1.407	1.341	1.279	.996	1.165
Tissue	3.401	3.337	3.200	3.255	3.200	3.209
Total Paperboard	21.327	22.159	21.984	21.474	18.892	20.601
Unbleached Kraft	8.888	9.597	9.539	9.423	8.497	9.312
Semichemical	3.204	3.287	3.309	3.228	2.907	3.070
Bleached Board	2.872	2.924	2.856	2.767	2.502	2.725
Recycled	6.363	6.351	6.280	6.055	4.986	5.493
Construction and Other	3.090	3.078	2.872	2.645	2.432	2.594
Total All Grades	51.201	52.233	51.951	51.594	44.309	48.322
Paper and Products	27.059	27.191	27.121	27.126	23.031	25.123
Paperboard and Products	21.038	22.044	21.802	21.064	18.487	20.152
Total Including Products	51.186	52.313	51.795	50.835	43.951	47.869

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of these grades to the United States. New supply of paper and products and of paperboard and products was calculated using Census import and export totals for all grades. See Tables XXXIV and XXXV for the adjusted import and export data used. RS - Revised Series R - Revised

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1983

000 Short Tons	1977R	1978R	1979R	1980R	1981R	1982R	1983P
Production - Total	60,170	62,182	64,510	63,666	64,402	61,119	67,073
Total Paper	27,833	28,431	29,806	30,156	31,020	30,391	32,976
Total Paperboard	28,953	30,275	31,429	30,952	31,232	29,065	32,177
Unbleached Kraft	13,651	14,372	15,151	15,295	15,602	14,535	16,122
Semichemical	4,264	4,439	4,689	4,724	4,719	4,389	4,730
Bleached Kraft	3,721	3,979	3,998	3,862	3,910	3,665	3,926
Recycled	7,317	7,485	7,591	7,071	7,001	6,476	7,398
Wet Machine Board	129	136	144	138	160	129E	140E
Building Paper	1,852	1,915	1,868	1,369	1,144	898E	1,020E
Insulating Board	1,403	1,425	1,263	1,051	846	635E	760E
New Supply							
Total Paper	34,256	36,086	37,572	37,151	37,660	36,762	40,298
Newsprint	10,080	10,788	11,159	11,377	11,696	10,968	11,523
Printing/Writing Papers	14,242	15,248	16,086	16,127	16,146	16,255	18,511
Uncoated Groundwood	1,749	1,907	2,123	2,086	2,001	2,068	2,414
Coated	4,223	4,540	4,587	4,639	4,833	4,962	5,779
Uncoated Free Sheet	6,835	7,274	7,937	8,063	7,918	7,941	8,931
Thin and Cotton Fiber	384	435	468	415	439	426	456
Bleached Bristols	1,052	1,092	971	924	955	858	931
Packaging and Ind. Conv. Papers	5,665	5,844	5,820	5,329	5,346	5,118	5,480
Unbleached Kraft	3,850	4,018	4,100	3,841	3,803	3,623	3,733
Other	1,815*	1,826*	1,720	1,488	1,543	1,495	1,747
Tissue	4,269	4,206	4,509	4,318	4,473	4,421	4,785
Total Paperboard	27,150	28,335	29,250	27,716	28,741	26,526	29,333
Unbleached Kraft	12,376	12,938	13,532	12,959	13,764	12,639	13,889
Semichemical	4,142	4,368	4,624	4,432	4,616	4,252	4,607
Bleached Board	3,332	3,546	3,502	3,313	3,353	3,140	3,412
Recycled	7,300	7,483	7,592	7,012	7,007	6,495	7,424
Construction and Other	3,464	3,737	3,598	2,968	2,468	2,024	2,330
Total All Grades	64,870	68,157	70,419	67,835	68,869	65,312	71,961
Paper and Products	34,211	36,287	37,523	37,070	37,452	36,710	40,204
Paperboard and Products	26,696	27,897	28,840	27,193	28,180	26,164	28,957
Total Including Products	64,371	67,922	69,961	67,233	68,101	64,897	71,491
Real G.N.P.- $ Bil., 1972 Prices Revised Series	1,369.7	1,438.6	1,479.4	1,475.0	1,512.2	1,480.0R	1,534.7R
Ratio of New Supply to Real G.N.P.							
Total Paper	25.010	25.084	25.397	25.187	24.904	24.839	26.257
Newsprint	7.359	7.499	7.543	7.713	7.734	7.411	7.508
Printing/Writing Papers	10.398	10.599	10.873	10.934	10.677	10.983	12.061
Uncoated Groundwood	1.277	1.326	1.435	1.414	1.323	1.397	1.573
Coated	3.083	3.156	3.101	3.145	3.196	3.353	3.766
Uncoated Free Sheet	4.990	5.056	5.365	5.466	5.236	5.366	5.819
Thin and Cotton Fiber	.280	.302	.316	.281	.290	.288	.297
Bleached Bristols	.768	.759	.656	.626	.632	.580	.607
Packaging and Ind. Conv. Papers	4.136	4.063	3.934	3.613	3.535	3.458	3.571
Unbleached Kraft	2.811	2.793	2.771	2.604	2.515	2.448	2.432
Other	1.325*	1.269*	1.163	1.009	1.020	1.010	1.138
Tissue	3.117	2.923	3.048	2.927	2.958	2.987	3.118
Total Paperboard	19.822	19.696	19.771	18.791	19.006	17.923	19.113
Unbleached Kraft	9.036	8.994	9.147	8.786	9.102	8.540	9.050
Semichemical	3.024	3.036	3.126	3.005	3.053	2.873	3.002
Bleached Board	2.433	2.467	2.367	2.246	2.217	2.122	2.223
Recycled	5.330	5.201	5.132	4.754	4.634	4.389	4.837
Construction and Other	2.529	2.598	2.432	2.012	1.632	1.368	1.518
Total All Grades	47.361	47.377	47.600	45.990	45.542	44.130	46.889
Paper and Products	24.977	25.224	25.363	25.132	24.767	24.804	26.197
Paperboard and Products	19.490	19.392	19.494	18.439	18.635	17.678	18.868
Total Including Products	46.996	47.214	47.290	45.583	45.034	43.849	46.583

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report
R - Revised P - Preliminary E - Estimated by API

TABLE XI

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1972 - 1986

(THOUSANDS OF TONS)

	1972	1973	1974	1975	1976	1977	1978
TOTAL PAPER AND BOARD	**59,965**	**62,284**	**63,779**	**64,369**	**65,673**	**66,459**	**67,419**
Total Paper	**26,545**	**27,621**	**28,532**	**28,922**	**29,210**	**29,831**	**30,460**
Newsprint #	3,490	3,597	3,722*	3,848	4,014	4,069	4,104
Total Printing, Writing & Related	12,766	13,659	14,128	14,275	14,494	14,975	15,566
Groundwood Uncoated #	1,353	1,403	1,280	1,329	1,309	1,367	1,453
Coated Papers - Total	3,866	4,045	4,075	4,065	4,202	4,397	4,546
Coated Groundwood	--	--	--	2,127	2,299	2,408	2,450
Coated Free Sheet	--	--	--	1,938	1,903	1,989	2,096
Uncoated Free Sheet	5,894	6,541	7,046	7,180	7,319	7,465	7,847
Cotton Fiber	152	149	142	139	142	133	131
Thin	320	342	351	367	358	402	395
Solid Bleached Bristols	1,182	1,179	1,235	1,194	1,165	1,213	1,194
Total Packaging & Ind. Conv.	5,997	6,060	6,360	6,368	6,202	6,242	6,146
Unbleached Kraft	4,053	4,138	4,389	4,333	4,218	4,317	4,223
Bleached Pkg. & Ind. Conv.	1,374	1,292	1,291	1,194**	1,128	1,069	1,041
Excluding Specialty Pkg.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Other	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Special Industrial	571	629	679	841	856	856	883
Tissue	4,292	4,303	4,322	4,432	4,500	4,545	4,644
Total Paperboard	**29,328**	**30,543**	**30,995**	**31,218**	**32,097**	**32,173**	**32,631**
Total Unbleached Kraft Packaging & Industrial Converting	13,458	13,898	13,965	14,157	14,568	14,793	15,054
Linerboard	12,568	12,862	12,901	13,138	13,448	13,586	13,864
Folding	393	463	479	484	595	645	650
Other	497	573	585	536	525	561	540
Total Bleached Packaging Paperboard	3,629	3,928	3,920	3,807	3,998	4,020	4,197
Folding	1,500	1,749	1,851	1,751	1,915	1,930	1,996
Milk Carton & Food Service	1,857	1,899	1,848	1,859	1,854	1,824	1,899
Linerboard	141	139	108	95	101	97	122
Other	129	141	113	102	128	170	179
Semichemical Paperboard	4,155	4,386	4,430	4,536	4,758	4,661	4,739
Total Recycled Paperboard	8,086	8,330	8,680	8,717	8,774	8,699	8,642
Linerboard	310	306	430	364	361	392	361
Corrugating Medium	1,063	1,178	1,358	1,449	1,476	1,337	1,343
Container Chip & Filler	329	349	344	408	398	403	311
Folding	2,673	2,664	2,665	2,658	2,705	2,674	2,568
Set-Up	540	518	505	465	450	443	418
Gypsum Wall Board Facing	1,044	1,093	1,100	1,063	1,046	1,112	1,238
Other	2,127	2,221	2,278	2,310	2,337	2,337	2,403
Total Paper and Paperboard	**55,873**	**58,164**	**59,527**	**60,140**	**61,307**	**62,004**	**63,091**
Total Wet Machine Board	**197**	**182**	**188**	**217**	**216**	**180**	**145**
Total Construction Paper & Board	**3,894**	**3,939**	**4,063**	**4,011**	**4,149**	**4,276**	**4,182**
Construction Paper	2,070	2,102	2,165	2,270	2,317	2,364	2,352
Insulating Board	1,824	1,837	1,898	1,741	1,832	1,912	1,830
Total Hard Pressed Board ###	**1,903**	**2,247**	**2,334**	**2,460**	**2,511**	**2,536##**	**2,525##**

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to November 1983.

* Average basis weight changed from 32 lbs. to 30 lbs. during 1974.

** Reflects shift of about 215,000 tons of bleached kraft envelope paper to uncoated free sheet in 1975 and later years.

\# - Not directly comparable with shipments data in Table II in 1972-1977 because of redefinition of certain grades from uncoated groundwood paper to newsprint.

- As reported in 1976 Capacity Survey.

- Hard Pressed Board not included in Total Paper and Board.

TABLE XI (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1972 - 1986

(THOUSANDS OF TONS)

	1979	1980	1981	1982	1983F	1984F	1985F	1986F
TOTAL PAPER AND BOARD	**69,033**	**70,716**	**72,255**	**73,118**	**73,710**	**74,862**	**75,953**	**76,984**
Total Paper	**31,179**	**32,659**	**33,706**	**34,665**	**35,211**	**35,973**	**36,723**	**37,231**
Newsprint	4,199	4,836	5,457	5,654	5,748	5,927	5,954	5,979
Total Printing, Writing & Related	16,057	16,798	17,302	17,809	18,249	18,849	19,482	19,803
Groundwood Uncoated	1,541	1,624	1,625	1,655	1,642	1,622	1,621	1,622
Coated Papers-Total	4,822	4,984	5,292	5,516	5,854	6,085	6,217	6,311
Coated Groundwood	2,554	2,762	3,047	3,242	3,452	3,598	3,667	3,698
Coated Free Sheet	2,268	2,222	2,245	2,274	2,402	2,487	2,550	2,613
Uncoated Free Sheet	8,152	8,645	8,828	9,039	9,179	9,554	10,044	10,269
Cotton Fiber	134	139	147	161	166	169	171	171
Thin	393	382	374	369	360	362	363	365
Solid Bleached Bristols	1,016	1,024	1,035	1,069	1,049	1,058	1,065	1,066
Total Packaging & Ind. Conv.	6,053	6,072	5,913	6,076	6,032	5,961	5,915	5,905
Unbleached Kraft	4,098	4,110	3,961	4,091	4,001	3,911	3,865	3,844
Bleached Pkg. & Ind. Conv.	1,105	1,095	1,083	1,080	1,112	1,121	1,114	1,120
Excluding Specialty Pkg.	N.A.	597	554	553	572	573	561	561
Other	N.A.	498	529	527	540	548	553	559
Special Industrial	850	866	870	906	918	929	936	941
Tissue	4,870	4,954	5,035	5,125	5,182	5,236	5,371	5,545
Total Paperboard	**33,436**	**33,709**	**34,466**	**35,421**	**35,603**	**35,992**	**36,332**	**36,853**
Total Unbleached Kraft Packaging & Industrial Converting	15,546	15,967	16,738	17,402	17,501	17,671	17,913	18,246
Liner	14,199	14,586	15,372	16,032	16,266	16,430	16,670	17,003
Folding	827	852	799	860	794	794	794	794
Other	520	529	567	509	441	446	449	449
Total Bleached Packeging Paperboard	4,268	4,180	4,141	4,123	4,100	4,166	4,211	4,255
Folding	2,061	1,954	1,966	1,988	2,020	2,036	2,052	2,087
Milk Carton & Food Service	1,877	1,865	1,839	1,812	1,758	1,799	1,827	1,837
Liner	137	116	106	104	104	111	109	109
Other	193	246	230	219	217	221	222	222
Semichemical Paperboard	4,864	4,946	4,988	5,207	5,156	5,218	5,240	5,253
Total Recycled Paperboard	8,757	8,617	8,599	8,690	8,845	8,937	8,969	9,099
Linerboard	432	509	463	379	459	459	459	564
Corrugating Medium	1,392	1,330	1,349	1,478	1,555	1,582	1,583	1,585
Container Chip & Filler	287	283	309	273	260	260	261	261
Folding	2,615	2,593	2,633	2,676	2,681	2,720	2,740	2,754
Set-Up	404	349	335	331	333	335	336	336
Gypsum Wall Board Facing	1,273	1,238	1,251	1,255	1,220	1,228	1,228	1,228
Other	2,355	2,313	2,260	2,298	2,339	2,353	2,364	2,371
Total Paper and Paperboard	**64,615**	**66,368**	**68,172**	**70,086**	**70,814**	**71,965**	**73,054**	**74,084**
Total Wet Machine Board	**154**	**163**	**157**	**160**	**152**	**151**	**151**	**151**
Total Construction Paper & Board	**4,265**	**4,184**	**3,926**	**2,872**	**2,745**	**2,746**	**2,748**	**2,749**
Construction Paper	2,380	2,345	2,111	1,306	1,258	1,259	1,261	1,262
Insulating Board	1,885	1,839	1,815	1,566	1,487	1,487	1,487	1,487
Total Hard Pressed Board #	**2,556##**	**2,556##**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey various issues to November 1983.
F - Forecast as reported in November 1983 Capacity Survey
N.A. - Not Available
\# - Hard Pressed Board Not included in Total Paper and Board.
- As reported in 1976 Capacity Survey.

TABLE XII

WOOD PULP CAPACITY

1972 - 1986

(Thousands of Tons)

	1972	1973	1974	1975	1976	1977	1978
TOTAL ALL GRADES (1)	**46,760**	**48,459**	**48,995**	**49,502**	**50,547**	**51,849**	**52,714**
Dissolving and Special Alpha	1,756	1,754	1,824	1,671	1,571	1,648	1,573
Chemical Paper Grades	35,118	36,631	36,912	37,411	38,292	39,174	39,997
Sulfite, Paper Grades Total	2,353	2,378	2,401	2,420	2,417	2,252	2,095
Bleached	1,949	1,977	2,014	1,993	1,972	1,812	1,675
Unbleached	404	401	387	427	445	440	420
Sulfate and Soda Total	32,765	34,253	34,511	34,991	35,875	36,922	37,903
Bleached Total	12,885	13,733	14,522	14,764	15,042	15,822	18,171
Hardwood	5,674	6,608	7,105	7,201	7,208	7,310	7,729
Softwood	7,211	7,125	7,417	7,563	7,835	8,512	10,442
Semi-Bleached Total	2,178	2,045	1,539	1,469	1,539	1,547	(2)
Hardwood	419	328	33	7	19	12	
Softwood	1,760	1,717	1,506	1,462	1,520	1,536	
Unbleached	17,702	18,475	18,451	18,758	19,293	19,552	19,732
Semichemical Total	3,937	4,171	4,233	4,246	4,402	4,514	4,572
Bleached	204	344	330	334	345	345	339
Unbleached	3,732	3,827	3,903	3,912	4,057	4,169	4,234
Mechanical Total	5,813	5,802	5,930	6,090	6,204	6,442	6,507
For Paper and Board	4,593	4,532	4,572	4,247	4,416	4,502	4,580
Stone Groundwood	-	-	-	3,615	3,540	3,397	3,328
Refiner	-	-	-	500	543	538	533
Thermo-Mechanical	-	-	-	131	333	567	719
For Other Paper and Board	1,220E	1,270E	1,358E	1,843	1,788	1,939	1,926
Stone and Refiner	-	-	-	523	537	525	529
Defibrated and Exploded (1)	1,220E	1,270E	1,358E	1,320E	1,251E	1,414	1,397
Screenings	137	100	97	84	78	71	65
MARKET PULP							
Total All Grades	-	-	**5,557**	**5,412**	**5,407**	**5,467**	**5,746**
Dissolving	-	-	1,636	1,488	1,421	1,611	1,573
Chemical Paper Grades	-	-	3,921	3,924	3,986	3,856	4,069
Sulfate	-	-	3,431	3,430	3,411	3,444	3,760
Bl. & Semi-Bleached	-	-	3,240	3,218	3,194	3,280	3,653
Unbleached	-	-	191	212	218	164	107
Sulfite	-	-	471	460	459	301	309
All Other	-	-	19	34	116	111	104

\- No Data Available

(1) Excludes defibrated and exploded wood pulp for hard pressed board as follows: 1,971 2,215 2,300 2,425 2,500 2,500 N.A.

E - Estimate

TABLE XII (Cont.)

WOOD PULP CAPACITY

1972 - 1986

(Thousands of Tons)

	1979	1980	1981	1982	1983F	1984F	1985F	1986F
TOTAL ALL GRADES (1)	**53,636**	**55,214**	**56,831**	**57,638**	**57,690**	**58,497**	**59,640**	**60,184**
Dissolving and Special Alpha	1,551	1,590	1,598	1,606	1,604	1,604	1,604	1,604
Chemical Paper Grades	40,897	41,893	43,143	43,971	44,082	44,630	45,746	46,205
Sulfite, Paper Grades Total	2,004	1,909	1,855	1,780	1,743	1,717	1,727	1,728
Bleached	1,595	1,512	1,464	1,383	1,343	1,369	1,384	1,385
Unbleached	409	397	391	397	400	348	343	343
Sulfate and Soda Total	38,893	39,983	41,288	42,191	42,338	42,913	44,019	44,477
Bleached and Semi-Bleached - Total	18,969	19,695	20,316	20,757	21,106	21,691	22,603	23,006
Hardwood	8,072	8,356	8,559	8,705	8,877	9,151	9,592	9,847
Softwood	10,897	11,339	11,757	12,052	12,229	12,540	13,011	13,159
Unbleached	19,923	20,288	20,972	21,435	21,232	21,222	21,416	21,472
Semichemical Total	4,553	4,601	4,597	4,734	4,587	4,632	4,644	4,659
Bleached	336	384	350	356	361	371	372	372
Unbleached	4,217	4,217	4,247	4,378	4,226	4,261	4,272	4,287
Mechanical Total (Groundwood)	6,572	7,069	7,434	7,293	7,388	7,602	7,616	7,687
For Paper and Board	4,573	5,070	5,494	5,780	5,900	6,114	6,128	6,199
Stone Groundwood	3,255	3,212	3,239	3,260	3,230	3,231	3,231	3,231
Refiner	507	486	489	472	479	494	503	507
Thermo-Mechanical	811	1,371	1,766	2,048	2,190	2,389	2,395	2,461
For Other Paper and Board	1,999	1,999	1,940	1,513	1,488	1,488	1,488	1,488
Stone and Refiner	594	647	651	628	628	628	628	628
Defibrated and Exploded	1,406	1,352	1,289	885	860	860	860	860
Screenings	63	61	58	34	30	30	30	30
MARKET PULP								
Total All Grades	**6,334**	**6,801**	**6,972**	**7,079**	**7,212**	**7,266**	**7,787**	**7,954**
Dissolving	1,551	1,576	1,579	1,598	1,594	1,594	1,594	1,594
Chemical Paper Grades	4,632	5,129	5,375	5,469	5,605	5,658	6,179	6,346
Sulfate	4,332	4,761	5,034	5,182	5,327	5,381	5,902	6,069
Bl. and Semi-Bleached	4,228	4,589	4,867	5,040	5,185	5,238	5,760	5,926
Unbleached	104	172	167	142	143	143	143	143
Sulfite	350	369	341	288	277	277	277	277
All Other	101	96	17	12	14	14	14	14

F - Forecast

TABLE XIII

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1978 - 1983

	1978		1979		1980	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**13,155,023**	**3,977,336**	**13,519,117**	**4,767,233**	**12,918,160**	**5,200,885**
WOOD PULP, ALL GRADES, TOTAL	**4,024,156**	**1,086,348**	**4,317,522**	**1,465,169**	**4,050,919**	**1,683,655**
Dissolving and Special Alpha	188,714	56,173	193,114	67,993	262,747	110,202
Sulphite, Paper Grades, Total	484,455	137,433	592,876	206,243	426,745	177,953
Bleached	417,002	120,810	480,609	171,802	317,468	138,825
Unbleached	67,453	16,623	112,267	34,441	109,277	39,127
Sulphate, Paper Grades, Total	3,143,221	853,073	3,330,202	1,142,638	3,188,092	1,351,402
Bleached	2,813,033	769,668	3,011,959	1,042,501	2,904,205	1,239,720
Semi-Bleached	130,335	34,865	150,196	50,448	140,342	58,245
Unbleached	199,853	48,540	168,047	49,689	143,545	53,437
Soda	**	**	**	**	**	**
Groundwood	161,594	28,362	162,509	35,601	148,499	33,849
Other*	46,172	11,306	38,821	12,694	24,836	10,249
WASTE PAPER	**17,783**	**1,294**	**78,395**	**11,189**	**87,064**	**17,188**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**9,113,084**	**2,813,639**	**9,123,200**	**3,208,026**	**8,780,177**	**3,417,904**
PAPER, PAPERBOARD AND OTHER, TOTAL	**9,023,644**	**2,639,761**	**9,027,147**	**2,984,897**	**8,686,416**	**3,172,997**
PAPER, TOTAL#	**8,591,591**	**2,562,381**	**8,559,716**	**2,896,107**	**8,113,036**	**3,063,633**
Newsprint	**7,483,720**	**2,111,649**	**7,222,701**	**2,300,450**	**7,279,349**	**2,637,857**
Printing & Writing Paper, Total	**958,128**	**385,315**	**1,178,507**	**511,724**	**739,678**	**363,266**
Groundwood, Uncoated	521,603	177,009	804,596	295,996	487,973	204,873
Coated and Impregnated Paper	213,658	109,203	188,846	108,590	114,927	68,868
Uncoated Free Sheet	214,943	93,028	167,894	93,838	129,380	80,604
Uncoated Book	203,204	78,744	142,674	69,291	115,528	62,466
Writing Papers	10,785	11,791	25,220	24,547	13,852	18,138
Other Fine Paper	954	2,493	-	-	-	-
Thin Paper	7,307	5,648	14,924	12,057	6,321	8,182
Bristols	618	427	2,247	1,243	1,077	739
Packaging & Industrial Paper, Total	**137,824**	**59,051**	**141,196**	**74,211**	**89,893**	**60,043**
Unbleached Kraft	64,623	19,292	66,816	24,551	33,889	14,293
Other Packaging & Converting	67,131	33,282	65,556	39,295	50,443	36,307
Glassine & Greaseproof	4,906	4,645	5,475	5,614	3,679	5,654
Vegetable Parchment	66	229	67	226	62	248
Special Industrial Paper	1,097	1,603	3,282	4,525	1,819	3,542
Tissue Paper	**11,919**	**6,366**	**17,312**	**9,722**	**4,116**	**2,467**
PAPERBOARD, TOTAL	**99,845**	**18,246**	**82,203**	**19,111**	**97,583**	**25,576**
Test or Containerboard	31,860	5,186	25,725	6,021	43,472	11,340
Semichemical Corrugating	-	-	33,494	5,889	31,349	6,156
Other Paperboard	67,985	13,060	22,984	7,201	22,762	8,080
WET MACHINE BOARD##	**2,614**	**1,440**	**2,345**	**1,341**	**2,118**	**1,395**
CONSTRUCTION PAPER & BOARD, TOTAL	**329,594**	**57,694**	**382,883**	**68,338**	**473,679**	**82,393**
Building Paper	271,872	47,018	330,147	56,768	435,666	73,238
Insulating and Other Building Board	57,723	10,676	52,736	11,570	38,013	9,155
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	**89,440**	**173,878**	**96,053**	**223,129**	**93,761**	**244,907**
PAPER PRODUCTS, TOTAL#	**83,043**	**162,788**	**90,246**	**211,682**	**84,146**	**232,412**
Printing & Book Paper#	15,544	56,123	17,425	69,385	19,377	80,902
Writing & Related Paper	58,406	95,561	49,708	78,857	55,780	136,334
Special Industrial Paper	6,690	8,928	19,657	59,180	5,792	10,368
Tissue Paper	2,403	2,176	3,456	4,260	3,197	4,808
PAPERBOARD PRODUCTS, TOTAL	**6,397**	**11,090**	**5,807**	**11,447**	**9,615**	**12,494**
Hard Pressed Board (Not in totals)	**295,729**	**40,716**	**262,229**	**39,607**	**172,023**	**32,713**

* Includes Mixtures and Screenings
** Included with Sulphate Pulp Imports
# Coated and Impregnated Printing Papers included in Primary Coated Papers from 1977 on, in earlier years they were in Paper Products
Excludes Imports of Leatherboard from 1977 on, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000)

	$76,054	$82,849	$82,138

TABLE XIII (Cont.)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1978 - 1983

	1981		1982		1983	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**12,504,912**	**5,559,228**	**11,754,127**	**5,344,649**	**13,180,285**	**5,650,120**
WOOD PULP, ALL GRADES, TOTAL	**4,086,698**	**1,764,287**	**3,655,786**	**1,493,241**	**4,093,436**	**1,472,478**
Dissolving and Special Alpha	248,565	105,179	186,477	77,853	192,317	72,280
Sulphite, Paper Grades, Total	442,422	197,695	329,442	145,373	305,620	124,299
Bleached	352,262	162,189	280,068	125,800	254,546	106,116
Unbleached	90,160	35,506	49,374	19,573	51,074	18,183
Sulphate, Paper Grades, Total	3,212,878	1,413,170	2,972,567	1,228,889	3,400,659	1,228,776
Bleached	2,904,531	1,285,810	2,761,314	1,147,304	3,197,550	1,163,186
Semi-Bleached	142,727	62,094	78,608	33,156	66,996	25,124
Unbleached	165,620	65,266	132,645	48,429	136,113	40,466
Soda	**	**	**	**	**	**
Groundwood	158,606	37,422	144,336	32,861	184,342	43,545
Other *	24,227	10,821	22,964	8,265	10,498	3,577
WASTE PAPER	**79,064**	**13,405**	**74,332**	**9,450**	**100,410**	**10,537**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**8,339,150**	**3,672,492**	**8,024,009**	**3,682,401**	**8,986,439**	**4,018,855**
PAPER, PAPERBOARD AND OTHER, TOTAL	**8,244,942**	**3,361,887**	**7,917,418**	**3,344,205**	**8,834,568**	**3,582,292**
PAPER, TOTAL#	**7,716,284**	**3,247,846**	**7,381,252**	**3,226,307**	**8,189,498**	**3,428,868**
Newsprint	**6,977,118**	**2,824,777**	**6,530,676**	**2,748,652**	**6,919,348**	**2,757,524**
Printing and Writing Paper, Total	**638,538**	**347,117**	**764,095**	**408,551**	**1,151,011**	**587,426**
Groundwood, Uncoated	458,915	219,697	514,882	248,196	732,237	331,017
Coated and Impregnated Paper	39,321	28,765	69,010	46,763	162,441	101,289
Uncoated Free Sheet	127,377	80,352	168,519	99,330	235,605	135,350
Book, Uncoated	114,422	64,874	142,626	80,105	154,147	88,632
Writing Papers	12,955	15,478	25,893	19,225	81,458	46,718
Other Fine Paper	-	-	-	-	-	-
Thin Paper	12,015	17,647	11,293	13,846	20,258	19,213
Bristols	910	656	391	416	471	557
Packaging & Industrial Paper, Total	**93,588**	**71,124**	**79,653**	**63,863**	**107,521**	**75,694**
Unbleached Kraft	32,532	14,870	23,078	10,749	42,013	17,454
Other Packaging & Converting	52,724	41,615	47,842	38,290	51,982	37,372
Glassine & Greaseproof	4,797	7,929	5,949	8,909	8,159	11,857
Vegetable Parchment	44	232	172	424	330	602
Special Industrial Paper	3,491	6,478	2,612	5,491	5,038	8,408
Tissue Paper	**7,040**	**4,830**	**6,828**	**5,241**	**11,617**	**8,225**
PAPERBOARD, TOTAL	**130,478**	**34,518**	**114,808**	**29,698**	**167,818**	**46,160**
Test or Containerboard	48,169	12,071	35,983	8,459	48,119	13,042
Semichemical Corrugating	52,470	11,695	47,295	9,679	69,564	14,509
Other Paperboard	29,832	10,751	31,531	11,560	50,136	18,609
WET MACHINE BOARD##	**1,684**	**1,185**	**1,842**	**1,239**	**3,584**	**2,422**
CONSTRUCTION PAPER & BOARD, TOTAL	**396,496**	**78,338**	**419,515**	**86,961**	**473,667**	**104,842**
Building Paper	355,284	65,927	371,186	70,964	393,148	77,004
Insulating and Other Building Board	41,212	12,411	48,330	15,997	80,519	27,837
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	**94,208**	**310,605**	**106,591**	**338,196**	**151,872**	**436,563**
PAPER PRODUCTS, TOTAL#	**86,676**	**294,479**	**92,059**	**307,245**	**124,816**	**373,966**
Printing & Book Paper#	21,635	96,180	30,656	124,667	27,260	119,636
Writing & Related Paper	53,885	177,048	50,275	161,616	82,184	228,078
Packaging & Special Industrial Paper	8,109	16,152	7,540	15,239	9,032	18,428
Tissue Paper	3,047	5,098	3,588	5,723	6,340	7,824
PAPERBOARD PRODUCTS, TOTAL	**7,531**	**16,126**	**14,532**	**30,951**	**27,055**	**62,597**
Hard Pressed Board (Not in totals)	**189,466**	**42,095**	**152,505**	**30,908**	**238,479**	**46,416**

* Includes Mixtures and Screenings
** Included with Sulphate Pulp Imports
# Coated and Impregnated Printing Papers included in Primary Coated Papers, in earlier years they were in Paper Products.
Excludes imports of Leatherboard, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

$109,042 $159,558 $148,251

TABLE XIV

EXPORTS

1977 - 1983

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1978		1979		1980	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**7,659,629**	**2,578,949**	**8,971,709**	**3,358,211**	**11,832,242**	**4,849,934**
WOOD PULP ALL GRADES, TOTAL	**2,598,952**	**817,102**	**2,934,815**	**1,103,783**	**3,805,549**	**1,652,099**
Dissolving and Special Alpha	757,486	304,841	764,466	343,076	768,975	393,384
Sulphite, Paper Grades, Total	210,479	63,154	256,880	94,968	348,097	154,199
Bleached	190,380	58,971	218,850	84,696	322,212	146,084
Unbleached	20,099	4,183	37,930	10,272	25,885	8,115
Sulphate, Paper Grades, Total	1,568,720	436,320	1,843,213	647,535	2,607,736	1,078,233
Bleached	1,400,209	394,434	1,632,320	583,516	2,402,619	1,010,204
Semi-Bleached	92,969	26,876	106,874	33,807	92,121	27,994
Unbleached	75,542	15,010	104,019	30,212	112,996	40,035
Mechanical, Semi-Chemical & Other	62,267	12,787	70,256	18,204	80,741	26,283
COTTON PULP & OTHER FIBER	**88,481**	**47,987**	**131,444**	**74,579**	**148,485**	**92,607**
WASTE PAPER	**1,599,449**	**145,884**	**2,233,246**	**256,107**	**2,664,272**	**322,195**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**3,372,747**	**1,560,453**	**3,672,203**	**1,913,940**	**5,213,936**	**2,772,733**
PAPER, PAPERBOARD AND OTHER, TOTAL	**2,895,733**	**1,108,083**	**3,109,859**	**1,328,320**	**4,581,878**	**2,052,406**
PAPER, TOTAL	**542,676**	**415,574**	**600,876**	**507,568**	**907,447**	**737,363**
Newsprint	**82,454**	**29,947**	**71,456**	**32,046**	**174,869**	**86,403**
Printing & Writing Paper, Total	**266,097**	**208,800**	**274,608**	**233,370**	**340,859**	**306,100**
Uncoated Groundwood	58,109	37,154	80,392	55,384	100,951	71,716
Coated Printing and Converting	73,592	54,358	73,521	57,743	92,351	75,160
Coated Groundwood	33,758	21,294	38,384	27,690	44,503	35,783
Coated Book	39,834	33,064	35,137	30,054	47,848	39,377
Uncoated Free Sheet	84,896	66,185	68,159	64,146	88,313	94,826
Thin (ex. cigarette)	26,544	29,953	32,357	36,741	33,835	42,036
Cotton Fiber	12,216	13,366	10,937	12,685	16,608	16,387
Bristols	10,740	7,784	9,242	6,671	8,801	5,975
Packaging & Industrial Paper, Total	**172,995**	**159,013**	**226,907**	**218,216**	**330,780**	**291,341**
Unbl.Kraft Pkg & Ind.Conv.Pprs,Total	45,442	17,440	63,695	27,079	142,825	61,346
Unbleached Kraft exc. Ship. Sack	25,030	10,725	35,705	16,651	77,154	36,172
Shipping Sack	20,412	6,714	27,990	10,428	65,671	25,174
Glassine, Greaseproof & Veg. Parch.	7,865	6,550	7,702	7,761	8,490	9,751
Other Pkg. & Industrial Converting	35,613	22,915	32,385	22,935	37,211	27,920
Special Industrial, Total	84,075	112,108	123,125	160,441	142,254	192,324
Special Industrial	74,019	94,306	110,557	135,864	129,566	165,754
Absorbent	10,056	17,802	12,568	24,577	12,688	26,570
Tissue Paper	**21,130**	**17,814**	**27,905**	**23,934**	**60,939**	**53,521**
PAPERBOARD TOTAL	**2,281,653**	**662,216**	**2,446,972**	**789,902**	**3,608,752**	**1,283,130**
Kraft Linerboard (a)	1,539,510	344,110	1,644,901	434,515	2,527,245	790,070
Other Kraft Paperboard (Unbleached)	65,833	22,300	100,301	33,739	163,825	60,633
Corrugating Medium Semichemical	32,051(c)	5,724	17,358	5,208	62,884	17,264
Bleached Packaging Paperboard, Total	440,724(d)	204,423	508,601	238,813	606,044	314,751
Special Food Board	86,950	36,995	59,248	26,355	20,630	10,932
Special Food Board Impr. CTD	353,774(d)	167,428	416,649	198,879(d)	559,895	290,655
Kraft Paperboard, n.e.c.(b)	N.A.	N.A.	32,704	13,579	25,519	13,164
Recycled Furnish Paperboard, Total	203,535	85,611	175,811	77,626	248,754	100,412
Boxboard & Related Boards	109,102	49,542	70,652	32,260	101,186	42,470
Special Paperboard	60,794	26,629	67,768	33,918	63,210	35,413
Containerboard	33,639	9,440	37,391	11,448	84,358	22,528
WET MACHINE BOARD	**7,554**	**4,805**	**7,371**	**5,146**	**8,017**	**5,258**
CONSTRUCTION PAPER & BOARD, TOTAL	**63,850**	**25,485**	**54,642**	**25,704**	**57,662**	**26,655**
Building Paper	37,166	13,220	34,020	14,420	31,436	13,299
Insulating & Other Building Board	26,684	12,265	20,623	11,284	26,226	13,356
PAPER AND PAPERBOARD PRODUCTS, TOTAL	477,014	452,373	562,343	585,620	632,058	720,328
PAPER PRODUCTS,TOTAL	**274,884**	**326,728**	**332,407**	**427,080**	**378,581**	**523,511**
Cig. Paper Cut to Size, Books, etc.	21,919	37,416	25,143	45,947	25,141	49,308
PAPERBOARD PRODUCTS, TOTAL	**202,130**	**125,645**	**229,936**	**158,540**	**253,477**	**196,817**
Hard Pressed Board (Not in Totals)	**25,571**	**8,541**	**32,030**	**11,223**	**28,900**	**10,705**

NOTE: Grade structure revised in 1978.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	$7,523	$9,803	$10,300

TABLE XIV (Cont.)

EXPORTS

1978 - 1983

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1981		1982		1983	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**10,663,148**	**4,917,049**	**9,872,299**	**4,324,128**	**10,889,442**	**4,229,844**
WOOD PULP ALL GRADES, TOTAL	**3,677,635**	**1,661,311**	**3,394,648**	**1,414,558**	**3,643,963**	**1,362,022**
Dissolving and Special Alpha	783,848	419,324	631,324	327,617	646,509	325,606
Sulphite, Paper Grades, Total	284,316	122,236	216,783	93,051	294,189	109,993
Bleached	271,952	118,465	209,078	91,115	281,422	106,258
Unbleached	12,364	3,771	7,705	1,936	12,767	3,736
Sulphate, Paper Grades, Total	2,585,476	1,111,599	2,519,413	985,496	2,663,639	913,537
Bleached	2,417,882	1,051,557	2,357,896	934,401	2,510,158	872,076
Semi-Bleached	66,443	24,956	62,399	21,470	57,630	18,230
Unbleached	101,151	35,086	99,118	29,625	95,851	23,231
Mechanical, Semi-Chemical & Other	23,995	8,151	27,128	8,394	39,626	12,884
COTTON PULP & OTHER FIBER	**131,910**	**85,195**	**104,560**	**72,327**	**102,863**	**69,805**
WASTE PAPER	**2,212,549**	**268,526**	**2,127,050**	**238,934**	**2,573,716**	**308,915**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**4,641,054**	**2,890,782**	**4,246,041**	**2,589,319**	**4,568,900**	**2,481,137**
PAPER, PAPERBOARD AND OTHER, TOTAL	**4,033,988**	**2,079,937**	**3,670,413**	**1,754,352**	**3,984,537**	**1,718,035**
PAPER, TOTAL	**1,008,409**	**846,775**	**840,445**	**679,069**	**773,760**	**599,557**
Newsprint	**270,460**	**139,702**	**307,657**	**142,964**	**294,870**	**127,119**
Printing & Writing Paper, Total	**383,317**	**354,608**	**246,617**	**239,134**	**201,820**	**198,304**
Uncoated Groundwood	119,673	91,966	55,916	48,430	37,292	33,300
Coated Printing & Converting Paper	88,597	78,328	81,373	65,485	79,185	60,033
Coated Groundwood	46,398	38,263	34,665	25,964	33,987	25,172
Coated Book	42,199	40,065	46,708	39,521	45,198	34,861
Uncoated Free Sheet	116,752	119,592	70,599	75,451	59,133	71,662
Thin (Exc. Cigarette)	42,717	46,573	27,688	34,699	17,643	20,010
Cotton Fiber	9,221	13,118	6,637	10,917	4,837	9,779
Bristols	6,357	5,031	4,404	4,152	3,730	3,520
Packaging & Industrial Paper, Total	**302,887**	**304,622**	**262,861**	**271,556**	**261,487**	**255,273**
Unbl.Kraft Pkg. & Ind. Conv., Total	110,801	50,980	89,062	38,003	116,190	43,233
Unbl. Kraft exc. Shipping Sack	69,328	34,107	49,377	22,534	47,133	18,037
Shipping Sack	41,473	16,873	39,685	15,469	69,057	25,196
Glassine, Greaseproof & Veg. Parch.	8,818	10,475	5,447	7,246	17,202	7,682
Other Pkg. & Ind. Converting	46,922	34,523	55,886	36,247	16,272	22,056
Special Industrial Paper, Total	136,346	208,644	112,466	190,060	111,523	182,302
Special Industrial	124,128	179,793	102,491	166,669	101,743	160,454
Absorbent	12,218	28,851	9,975	23,391	9,781	21,848
Tissue Paper	**51,745**	**47,842**	**23,310**	**25,415**	**15,883**	**18,861**
PAPERBOARD TOTAL	**2,945,935**	**1,195,528**	**2,771,046**	**1,044,908**	**3,143,405**	**1,086,488**
Kraft Linerboard (a)	1,973,487	660,285	1,886,193	542,304	2,254,544	575,862
Other Kraft Paperboard (Unbleached)	148,855	63,341	139,219	60,780	107,142	51,822
Corrugating Medium Semichemical	65,821	19,588	61,422	18,116	73,758	17,144
Bleached Packaging Paperboard, Total	584,250	367,530	525,734	349,614	558,326	371,436
Special Food Board	21,922	13,322	38,130	22,683	22,326	16,274
Special Food Board Impr. CTD	531,904	335,240	465,585	311,909	511,272	344,105
Kraft Paperboard, n.e.c. (b)	30,424	18,968	22,019	15,022	24,728	11,057
Recycled Furnish Paperboard, Total	173,522	84,784	158,478	74,094	149,635	70,224
Boxboard & Related Boards (c)	69,939	32,313	76,728	31,877	57,818	27,908
Special Paperboard	53,760	36,219	32,418	26,295	42,323	29,408
Containerboard	49,823	16,252	49,332	15,922	49,494	12,908
WET MACHINE BOARD	**10,812**	**7,039**	**11,089**	**5,939**	**11,624**	**5,420**
CONSTRUCTION PAPER & BOARD, TOTAL	**68,832**	**30,595**	**47,833**	**24,437**	**55,748**	**26,570**
Building Paper	22,690	12,364	19,748	10,544	20,676	11,633
Insulating & Other Building Board	46,142	18,231	28,085	13,893	35,070	14,937
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**607,066**	**810,845**	**575,628**	**834,966**	**584,363**	**763,102**
PAPER PRODUCTS, TOTAL	**362,337**	**580,602**	**315,805**	**591,163**	**311,912**	**535,687**
Cig. Paper Cut to Size, Books, etc.	20,120	47,335	17,717	46,349	16,280	44,419
PAPERBOARD PRODUCTS, TOTAL	**244,729**	**230,243**	**259,823**	**243,804**	**272,451**	**227,415**
Hard Pressed Board (Not in Totals)	**61,046**	**19,111**	**46,793**	**13,921**	**60,405**	**17,949**

(a) - Contains Bleached Kraft Linerboard reported as follows:(Tons) 1972 - 150,484; 1973 - 69,929; 1974 - 133,682; 1975 - 149,483; 1976 - 131,524; 1977 - 130,545; 1978 - 194,422; 1979 - 179,995; 1980 - 233,924; 1981 - 151,979; 1982 - 67,595; 1983 - 160,253

(b) - Contains some Bristols and Other Paperboard.

(c) - Includes Bleached Folding Boxboard - Not Reported Separately.

* Not comparable to prior years

NOTE: Dollar figures for the value of shipment for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000) $11,235 $8,990 $7,965

TABLE XV

VALUE OF SHIPMENTS OF PRODUCT CLASSES

1977 - 1982

(Millions of Dollars)

SIC CODE		1977	1978	1979	1980	1981	1982
26	PAPER AND ALLIED PRODUCTS (1)	$50,356.5	$55,064.5	$62,662.7	$70,014.7	$77,294.4	$77,045.3
2611-	Pulp	2,466.4	2,499.5	3,077.2	3,911.9	3,971.0	3,694.3
26111	Special Alpha and Dissolving Woodpulp	570.5	550.7	621.9	818.3	715.1	593.8
26112	Other Pulp, Including Byproducts, Exc. Tall Oil	1,894.8	1,948.4	2,450.6	3,087.4	3,249.8	3,096.9
26110	Pulp, N.S.K.	1.1	0.4	4.7	6.2	6.0	3.6
2621-	Papermill Products, except Building Paper	12,438.2	13,535.7	15,784.3	17,710.7	19,936.3	20,223.2
26211	Newsprint	989.3	1,039.8	1,226.1	1,683.9	2,063.0	2,224.2
26212	Groundwood Paper, Uncoated	539.0	593.9	722.7	741.4	842.3	861.2
26213	Clay Coated Printing and Converting Paper	2,260.9	2,572.1	2,824.9	3,160.3	3,581.4	3,874.5
26214	Uncoated Free Sheet	3,352.7	3,761.5	4,665.8	5,442.9	5,765.7	5,508.2
26215	Bleached Bristols (Exc. Cotton Fiber)	474.3	504.4	502.1	494.0	602.8	586.8
26216	Cotton Fiber Paper and Thin Paper (77)	496.1	536.4	645.3	676.6	736.2	579.8
26217	Unbleached Kraft Packaging & Ind. Converting Paper	1,098.7	1,137.7	1,243.9	1,438.6	1,444.4	1,297.7
26218	Packaging and Ind. Conv. Paper, Exc. Unbl. Kraft	560.6	626.8	759.8	719.5	793.3	689.9
26219	Special Industrial Paper	550.7	522.6	575.3	544.1	639.5	880.0
26210	Tissue Paper, and Papermill Products, N.S.K.	2,115.9	2,240.6	2,618.3	2,809.3	3,467.6	3,721.0
2631-	Paperboard Mill Products	6,434.7	6,988.8	8,026.9	9,062.8	10,064.9	9,290.8
26311	Unbleached Kraft Packaging & Ind. Conv. Paperboard	2,697.2	2,939.2	3,542.1	4,069.7	4,575.9	3,991.6
26312	Bleached Packaging & Ind. Converting Paperboard	1,364.6	1,530.1	1,566.5	1,780.9	2,031.3	2,149.6
26313	Semichemical Paperboard	748.9	784.3	967.1	1,069.1	1,158.7	1,012.5
26314	Recycled Paperboard	1,562.7	1,668.2	1,863.3	2,053.7	2,173.0	2,034.9
26318	Wet Machine Board	59.3	63.6	70.4	64.2	76.8	62.8
26310	Paperboard Mill Products, N.S.K.	2.0	(S)	17.4	25.3	49.3	39.2
264-	Miscellaneous Converted Paper Products	15,543.4	17,288.5	19,771.2	22,127.1	24,273.3	24,956.0
2641-	Coated and Glazed Paper	3,043.2	3,320.2	3,832.1	4,302.4	4,803.4	4,891.5
26411	Printing Paper Coated at Estab. not making Paper	172.0	217.7	233.6	233.4	269.3	306.5
26412	Oiled, Waxed and Wax-Laminated Paper	256.3	257.6	255.5	350.4	368.7	(A)
26413	Gummed Products	187.6	199.2	229.6	259.7	237.7	214.0
26414	Pressure Sensitive Tape and Labels (Unprinted)	1,177.7	1,305.1	1,502.7	1,649.5	1,857.3	1,906.6
26417	Laminated, Coated Rolls, Sheets, for Pkg. Uses	697.1	831.6	927.2	1,060.5	1,238.9	1,314.5
26418	Other Coated Processed Paper, Except Pkg. & Waxed	421.1	425.7	574.6	632.1	689.7	813.0
26410	Coated and Glazed, N.S.K.	131.3	(S)	108.8	116.8	141.4	336.9
26420	Envelopes(Excluding Stationary Envelopes)	980.6	1,140.4	1,288.8	1,460.7	1,610.3	1,765.9
2643-	Bags, Except Textile Bags	3,304.1	3,819.1	4,200.4	4,621.0	5,037.6	4,742.7
26431	Grocers' & Variety Bags and Shopping Bags	801.6	912.9	985.2	1,129.3	1,209.5	1,163.8
26432	Specialty Bags and Liners	1,615.7	1,874.7	2,390.9	2,689.8	2,972.7	2,353.3
26433	Shipping Sacks and Multiwall Bags	672.6	714.0	781.6	760.2	805.8	846.5
26430	Bags, Except Textile Bags, N.S.K.	214.3	(S)	(S)	(S)	(S)	379.1
2645-	Die-Cut Paper and Board	1,034.3	1,155.5	1,213.9	1,394.5	1,514.8	1,598.8
26451	Office Supplies and Misc. Products	484.9	517.3	671.5	745.3	826.5	791.3
26452	Pasted, Lined, Laminated, or Coated Paperboard	438.4	474.8	465.6	(529.9)	576.0	684.8
26450	Die-Cut Paper and Board, N.S.K.	111.0	163.4	(76.8)	119.3	112.3	122.7
2646-	Pressed and Molded Pulp Goods	239.6	221.6	216.7	209.2	246.2	227.7
26461	Bituminous Fiber Pipe,	(D)	(D)	(D)	(D)	(D)	(D)
26462	Other Pressed and Molded Pulp Goods	225.9	209.5	207.8	(200.5)	239.9	(D)
26460	Pressed and Molded Pulp Goods, N.S.K.	(D)	(D)	(D)	(D)	(D)	(D)
2647-	Sanitary Paper Products	4,562.3R	5,105.5	6,163.9	7,043.4	7,752.3	8,361.0
26471	Sanitary Napkins and Tampons	588.7	581.0	660.4	775.8	919.2	915.1
26472	Sanitary Tissue Health Products	3,948.0R	4,475.2	5,420.3	6,283.8	6,793.0	7,405.8
26470	Sanitary Paper Products, N.S.K.	25.6	(S)	83.2	-	40.1	40.1
2648-	Stationery Products	630.5	717.7	751.5	840.8	896.6	994.1
26481	Stationery	141.2	171.1	190.0	235.4	268.4	281.3
26482	Tablets and Related Products	425.5	463.7	497.7	535.6	569.4	607.0
26480	Stationery Products, N.S.K.	63.8	(S)	63.8	69.8	58.9	105.9
2649-	Converted Paper Products N.E.C.	1,748.8	1,808.7	2,103.9	2,255.1	2,412.1	2,374.3
26492	Wrapping Products (Gift Wrap, etc.)	251.5	267.4	344.1	360.0	394.8	375.0
26493	Wallcoverings	306.5	287.8	325.5	361.1	410.2	396.9
26495	Other Converted Paper and Board Products	948.1	1,032.9	1,199.4	1,233.8	1,270.4	1,272.0
26490	Converted Paper Products, N.E.C, N.S.K.	242.7	(S)	234.9	(300.1)	336.7	330.4
265-	Paperboard Containers and Boxes	12,959.2	14,187.6	15,439.5	16,684.4	18,548.5	18,526.7
26510	Bending Paperboard Packaging and Pkg. Components	2,393.4	2,667.4	2,797.7	3,152.9	3,415.0	3,747.4
26520	Setup Paperboard Boxes	377.7	417.0	408.1	447.1	485.0	462.5
26530	Corrugated and Solid Fiber Boxes, Inc. Pallets	7,182.8	7,893.9	8,686.9	9,363.5	10,495.9	10,261.7
2654-	Sanitary Food Containers	1,964.9	2,065.6	2,251.7	2,392.5	2,627.2	2,545.6
26541	Milk and Other Beverage Cartons (Paperboard)	480.0	465.9	489.5	502.7	512.6	550.5
26542	Cups and Liquid-Tight Containers (Paperboard)	594.1	632.5	724.9	779.3	828.1	885.2
26543	Other Sanitary Food Containers, Boards, and Trays	842.2	917.2	1,034.8	1,108.0	1,299.1	1,067.6
26540	Sanitary Food Containers, (Paperboard) N.S.K.	48.6	(S)	(S)	(S)	*	42.2
2655-	Fiber Cans, Drums, and Similar Products	1,040.4	1,143.7	1,295.1	1,328.4	1,525.4	1,509.5
26551	Paperboard Fiber Drums	223.8	234.3	299.8	282.6	286.5	289.8
26552	Fiber Cans, Tubes, and Similar Fiber Products	782.6	875.8	956.3	1,004.5	1,188.1	1,148.9
26550	Fiber Cans, Drums and Similar Products, N.S.K.	34.0	(S)	38.9	41.3	50.8	70.8
2661-	Building Paper and Board	514.3	564.4	563.6	517.8	500.4	354.3
26611	Insulating Board	222.2	238.8	231.7	211.3	208.7	188.9
26612	Construction Paper	291.8	325.3	313.2	281.6	253.5	165.3
26610	Building Paper and Board, N.S.K.	0.3	0.3	18.7	24.9	38.2	(Z)

SOURCE: 1982 Census of Manufactures - Bureau of Census
1981 Survey of Manufactures - Bureau of Census

R -Revised

(1) Sum of reported data
(A) Not reported separately
(D) Data withheld to avoid disclosure
(S) Not up to statistical standard
(Z) Less than half the unit shown.

* - Withheld - NSK calculation was a negative number
N.S.K. - Not Specified by Kind
N.E.C. - Not Elsewhere Classified

SECTION II
REGIONAL DATA

Table XVI presents regional data for 1981 and 1982 on pulpwood consumption, wood pulp production and paper and paperboard shipments as published by the Bureau of Census. The totals for paper and paperboard reported by Census for 1982 are lower than those reported in Tables II and III by API.

The following table compares total shipments as published by Census with the comparable API production data for 1981 and 1982. The API data are based on reports from mills accounting for over 90% of the industry's capacity. The API paper totals are largely based on shipments. The paperboard data are based entirely on production. The API production data are adjusted to exclude normal finishing losses, and thus should be consistent with the shipments data. The differences are much too large to be explained by inventory change.

	1982		1981	
	Census Shipments	API Data	Census Shipments	API Data
	(Thousand Tons)			
Paper	28,852	30,390	30,241	31,020
Paperboard	27,900	29,065	30,010	31,232
Other	2,579	N.A.	1,583	N.A.
Wet Machine Board	N.A.		112	
Construction Paper	385		656	
Insulation Board	729		815	
Hardboard	1,465		N.A.	

N.A. - Not Available

API does not collect production or shipments data on the "Other" grades. The Census regional data show total wet machine board and the total of the construction paper and board grades.

This table is the only source of state and regional production data. The lower shipments total published by Census may reflect own-use of such products as kraft paper and paperboard that the mills reporting to Census did not include in their shipments totals.

Table XVII presents regional data on the capacity to produce paper, paperboard and wood pulp by major grade for the years 1970, 1979-1982 and 1986. The data shown for 1970 and 1978 represent the capacity as of the end of the year. The data for the other years reflect the average capacity during the year.

TABLE XVI

STATE DATA - 1981

(Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*(R)	WOOD PULP PRODUCTION (R)	PAPER AND PAPERBOARD SHIPMENTS				
			Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	79,349,819	52,789,514	61,833,853	30,240,867	30,009,805	112,139	1,471,042
Northeast	7,042,871	4,361,188	9,778,154	7,549,340	1,806,130	(D)	(D)
New England	4,374,126	2,780,539	5,076,347	4,182,409	803,487	(D)	(D)
Maine	(D)	2,376,625	3,362,198	3,282,740	(D)	-	(D)
New Hampshire	(D)	(D)	(D)	252,373	(D)	(D)	-
Massachusetts	(-) H	-	727,426	426,337	301,089	-	-
Vermont	(D)	(D)	(D)	(D)	(D)	-	-
Rhode Island	(D) S	(D)	(D)	-	-	-	(D)
Connecticut	-	-	(D)	(D)	(D)	(D)	-
Middle Atlantic	2,668,745	1,580,649	4,701,443	3,366,931	1,002,643	(D)	(D)
New York	(D) H	(D)	1,923,869	1,626,903	(D)	(D)	(D)
New Jersey	(D)	(D)	618,704	322,356	(D)	(D)	(D)
Pennsylvania	1,018,516H	939,920	2,158,870	1,417,672	603,900	(D)	(D)
North Central	5,864,609	4,107,349	11,185,600	6,806,413	4,110,223	(D)	(D)
East North Central	4,747,188	3,199,977	9,835,[illegible]	5,990,126	(D)	(D)	
Ohio	509,656	(D)	(D)	(D)	1,080,756	-	(D)
Indiana	(D) H	(D)	(D)	(D)	552,985	-	-
Illinois	(D)	(D)	(D)	(D)	396,966	(D)	(D)
Michigan	1,034,772H	966,940	(D)	1,177,362	(D)	-	-
Wisconsin	1,400,835H	1,687,778	4,118,530	3,581,480	(D)	-	-
West North Central	1,117,421	907,372	1,350,345	816,287	(D)	-	(D)
Minnesota	(D)	771,101	(D)	816,287	(D)	-	(D)
Iowa	(D) H	(D)	(D)	-	(D)	-	(D)
Missouri	(D)	(D)	(D)	-	(D)	-	(D)
Kansas	-	-	(D)	-	(D)	-	(D)
South	51,684,845	35,697,389	32,226,208	11,589,968	19,907,873	(D)	(D)
South Atlantic	25,228,318	17,208,987	15,470,046	4,631,213	10,533,742	(D)	(D)
Delaware	-	-	(D)	(D)	(D)	-	-
Maryland	(D)	(D)	453,338	(D)	(D)	-	(D)
Virginia	1,815,790H	(D)	2,823,158	(D)	1,804,848	(D)	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,677,059	(D)	2,245,013	(D)	(D)	-	-
South Carolina	3,107,997S	2,423,609	2,337,532	(D)	(D)	-	-
Georgia	8,518,102	5,663,410	5,213,106	1,015,871	(D)	-	(D)
Florida	5,462,595S	3,490,256	2,318,881	(D)	(D)	-	-
East South Central	13,306,624	9,175,589	8,091,243	3,229,820	4,677,945	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	(D)	-	-
Tennessee	472,018H	(D)	1,965,676	(D)	963,738	(D)	-
Alabama	7,507,620	4,972,659	4,513,500	1,864,051	(D)	-	(D)
Mississippi	(D) S	2,148,802	(D)	(D)	(D)	-	(D)
West South Central	13,149,903	9,312,813	8,666,919	3,728,935	4,696,186	-	239,798
Arkansas	832,911H	(D)	2,134,119	(D)	(D)	-	(D)
Louisiana	5,769,027	3,886,631	3,574,294	1,473,077	(D)	-	(D)
Oklahoma	(D)	(D)	849,229	-	(D)	-	(D)
Texas	3,036,008S	2,828,620	2,109,277	(D)	888,830	-	(D)
West	14,757,494	8,623,588	8,643,891	4,295,146	4,185,579	-	(D)
Mountain	2,279,355S	1,225,769	1,353,301	(D)	(D)	-	-
Montana	(D) S	(D)	(D)	-	(D)	-	-
Idaho	(D) S	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	-	(D)	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	(D) S	(D)	(D)	(D)	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	12,478,139	7,397,819	7,290,590	(D)	(D)	-	(D)
Washington	5,719,609	3,518,959	2,928,484	(D)	(D)	-	-
Oregon	4,288,918	2,786,690	2,973,406	1,486,363	(D)	-	(D)
California	92,639H	(D)	1,388,700	(D)	847,909	-	(D)
Alaska	(D) S	(D)	-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Report, Pulp, Paper and Board 1981 and 1982 Series M26A (81)-1 U.S. Department of Commerce, Washington, D.C.

* - 128 Cu. Ft. roughwood basis

\- - Represents zero

S - Softwood pulpwood only, excludes hardwood pulpwood

H - Hardwood pulpwood only, excludes softwood pulpwood

(D) - Withheld by Commerce Department to avoid disclosure

R - Revised

TABLE XVI (Cont.)

STATE DATA - 1982

(Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD SHIPMENTS				
			Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	**73,641,684**	**48,832,592**	**59,331,929**2/	**28,852,209**	**27,900,355**1/	**(1)**	**2,579,365**2/
Northeast	6,714,076	4,118,921	9,255,477	7,241,558	1,489,778	(D)	(D)
New England	4,183,062	2,611,102	(D)	4,050,194	588,611	(D)	(D)
Maine	2,305,891S	(D)	(D)	3,137,112	(D)	-	(D)
New Hampshire	(D)	(D)	(D)	310,568	(D)	(D)	-
Vermont	(D)	(D)	(D)	(D)	(D)	-	(D)
Massachusetts	-	-	553,425	376,433	176,992	-	-
Rhode Island	-	-	-	-	-	-	-
Connecticut	-	-	(D)	(D)	(D)	-	-
Middle Atlantic	2,531,014	1,507,819	(D)	3,191,364	901,167	(D)	(D)
New York	(D)	(D)	1,653,975	1,440,585	(D)	(D)	(D)
New Jersey	(D)	(D)	(D)	351,302	(D)	(D)	(D)
Pennsylvania	995,942H	926,020	2,229,256	1,399,477	584,610	(D)	(D)
North Central	**5,393,523**	**3,691,084**	**10,327,566**	**6,293,995**	**3,875,183**	**(D)**	**(D)**
East North Central	4,353,409	2,891,902	8,915,231	5,437,511	(D)	(D)	(D)
Ohio	4,127S	(D)	(D)	(D)	1,014,333	-	(D)
Indiana	(D) H	(D)	(D)	(D)	515,640	-	-
Illinois	(D) H	(D)	(D)	(D)	458,218	(D)	(D)
Michigan	821,760H	848,758	(D)	912,903	(D)	-	-
Wisconsin	1,459,120H	1,541,353	(D)	3,459,283	(D)	-	-
West North Central	1,040,114	799,182	1,412,335	856,484	(D)	-	(D)
Minnesota	(D)	(D)	(D)	856,484	(D)	-	(D)
Iowa	(D) H	(D)	(D)	-	(D)	-	(D)
Missouri	(D)	(D)	(D)	-	(D)	-	(D)
Kansas	-	-	(D)	-	(D)	-	(D)
South	**48,508,995**	**33,296,657**	**(D)**	**11,102,457**	**18,664,464**	**(D)**	**1,461,933**
South Atlantic	23,574,366	16,076,868	(D)	4,317,695	9,740,559	-	(D)
Delaware	-	-	(D)	(D)	(D)	-	-
Maryland	(D)	(D)	(D)	(D)	(D)	-	-
Virginia	1,748,299H	2,563,202	2,732,726	(D)	1,705,969	-	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,780,531	2,724,834	2,120,181	(D)	(D)	-	(D)
South Carolina	2,642,014S	(D)	1,896,034	(D)	(D)	-	(D)
Georgia	8,060,037	5,414,562	4,992,180	945,690	(D)	-	(D)
Florida	4,838,190	3,095,109	2,362,513	(D)	(D)	-	-
East South Central	12,837,662	8,904,733	(D)	3,191,927	4,491,328	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	-	-	-
Tennessee	464,990H	(D)	2,049,271	(D)	1,174,696	(D)	-
Alabama	7,407,743	4,873,307	(D)	1,944,317	(D)	-	(D)
Mississippi	(D)	2,009,316	1,624,231	(D)	(D)	-	(D)
West South Central	12,096,967	8,315,056	(D)	3,592,835	4,432,577	-	(D)
Arkansas	835,801H	(D)	2,115,127	(D)	(D)	-	(D)
Louisiana	4,915,626	3,248,573	3,105,024	1,348,150	(D)	-	(D)
Oklahoma	(D)	(D)	(D)	-	(D)	-	(D)
Texas	2,931,143S	2,735,026	(D)	(D)	998,593	-	(D)
West	**13,025,090**	**7,725,930**	**(D)**	**4,214,199**	**3,870,930**	**-**	**(D)**
Mountain	1,913,166S	1,003,743	(D)	(D)	(D)	-	-
Montana	(D) S	(D)	(D)	-	(D)	-	-
Idaho	(D) S	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	-	(D)	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	(D) S	(D)	(D)	(D)	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	11,111,864	6,722,187	7,346,076	(D)	(D)	-	(D)
Washington	5,098,370	3,274,164	3,012,712	(D)	(D)	-	-
Oregon	3,963,896	2,489,063	2,762,350	1,366,291	(D)	-	(D)
California	56,538H	(D)	1,571,014	(D)	774,480	-	(D)
Alaska	(D) S	(D)	-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Reports, Pulp, Paper and Board 1982, Series: M26A (80)-13 U.S. Department of Commerce, Washington, DC

* - 128 Cu. Ft. roughwood basis

\- - Represents zero

S - Softwood pulpwood only H - Hardwood pulpwood only

(D) - Withheld by Commerce Department to avoid disclosure

1/ - Data for wet machine board included with paperboard to avoid disclosure

2/ - Includes 1,465,000 tons of hardboard

TABLE XVII

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970 - 1986

ANNUAL CAPACITY - 000 SHORT TONS

	Total Paper & Paper-board	PAPER					PAPERBOARD			
		Total	Newsprint	Printing Writing & Related	Packaging & Ind. Converting	Tissue	Total	Unbleached Kraft Total	Unbleached Kraft Liner-board	Solid Bleached
New England										
1970*	4,748	3,660	417	2,419	367	457	895	-	-	34
1979	5,664	4,586	341	3,247	489	510	891	-	-	35
1980	5,712	4,644	323	3,322	459	541	891	-	-	N.A.
1981	5,740	4,791	N.A.	3,500	441	542	832	-	-	N.A.
1982	5,787	4,901	N.A.	3,600	457	547	811	-	-	N.A.
1986	6,104	5,208	N.A.	3,874	461	576	830	-	-	N.A.
Middle Atlantic										
1970*	6,354	3,411	149	1,926	300	1,036	2,087	-	-	-
1979	6,540	3,869	192	2,257	239	1,181	1,941	-	-	-
1980	6,452	3,890	N.A.	2,312	224	1,155	1,912	-	-	-
1981	6,316	3,920	N.A.	2,356	225	1,135	1,769	-	-	-
1982	6,037	3,803	N.A.	2,313	222	1,060	1,702	-	-	-
1986	6,242	3,941	N.A.	2,384	234	1,116	1,768	-	-	-
East North Central										
1970*	10,057	5,070	113	3,197	628	1,132	4,021	-	-	124
1979	11,066	6,004	138	3,952	677	1,237	4,254	-	-	-
1980	11,253	6,202	140	4,056	768	1,237	4,238	-	-	N.A.
1981	11,481	6,386	N.A.	4,236	758	1,251	4,357	-	-	N.A.
1982	11,330	6,597	N.A.	4,417	773	1,268	4,410	-	-	N.A.
1986	11,869	7,057	N.A.	4,639	810	1,469	4,502	-	-	N.A.
West North Central										
1970*	1,587	594	-	571	23	-	438	-	-	-
1979	1,842	832	-	830	1	-	441	-	-	-
1980	1,856	850	-	834	17	-	440	-	-	-
1981	1,819	846	-	828	18	-	450	-	-	-
1982	1,810	875	-	860	N.A.	-	459	-	-	-
1986	1,886	988	-	977	N.A.	-	473	-	-	-
South Atlantic										
1970*	13,623	3,520	339	1,275	1,723	182	9,514	6,194	5,770	1,382
1979	16,397	4,407	458	1,900	1,703	346	11,229	7,174	6,667	1,858
1980	16,945	4,746	676	1,985	1,699	386	11,409	7,469	6,945	1,788
1981	17,297	4,898	762	2,017	1,722	397	11,620	7,712	7,234	1,688
1982	17,576	5,245	780	2,083	1,964	419	11,686	7,771	7,352	1,584
1986	18,299	5,773	1,011	2,509	1,845	408	11,924	7,939	7,562	1,724
East South Central										
1970*	7,137	2,792	833	747	739	473	3,439	2,232	2,168	626
1979	8,054	3,134	918	1,184	523	508	4,531	2,815	2,519	716
1980	8,515	3,408	1,061	1,335	506	505	4,744	3,008	2,679	717
1981	8,922	3,529	1,112	1,399	502	516	5,041	3,296	2,934	723
1982	9,183	3,731	1,118	1,567	508	538	5,105	3,324	2,934	735
1986	10,395	4,334	1,153	2,125	512	543	5,721	3,692	3,301	742
West South Central										
1970*	7,106	3,188	721	1,130	1,247	88	3,172	1,704	1,442	871
1979	9,998	4,185	1,054	1,382	1,449	300	5,178	2,977	2,476	1,175
1980	10,267	4,437	1,159	1,504	1,445	329	5,194	2,964	2,484	1,197
1981	10,375	4,517	1,342	1,494	1,311	370	5,254	2,948	2,470	1,253
1982	10,946	4,525	1,343	1,540	1,213	429	6,025	3,521	3,005	1,240
1986	11,318	4,773	1,335	1,726	1,175	538	6,148	3,784	3,352	1,333
Mountain and Pacific										
1970*	8,340	3,571	888	954	913	817	4,053	2,177	2,136	435
1979	9,473	4,161	1,098	1,304	972	787	4,970	2,580	2,538	483
1980	9,716	4,483	1,279	1,451	953	800	4,881	2,526	2,479	441
1981	10,305	4,820	1,587	1,472	937	824	5,143	2,782	2,735	439
1982	10,449	4,988	1,770	1,429	924	865	5,223	2,785	2,741	431
1986	10,870	5,157	1,836	1,569	857	895	5,486	2,831	2,788	426

* Total capacity at end of year.
N.A. Not Available

TABLE XVII (Cont.)

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970 - 1986

ANNUAL CAPACITY - 000 SHORT TONS

	PAPERBOARD (Cont.)		Con-struction Paper & Board	WOOD PULP							
							Sulphate				
	Semi-Chemical	Recycled		Total **	Dis-solving	Sulphite	Bl. & Semi-Bl	Un-bleached (1)	Semi-chemical	Mechan-ical	For Con-struction (2)
New England											
1970*	179	682	192	2,797	-	484	1,061	48	140	953	100
1979	195	660	187	3,252	-	252	1,714	78	148	928	132
1980	N.A.	663	176	3,253	-	N.A.	1,757	70	N.A.	908	130
1981	N.A.	667	118	3,243	-	N.A.	1,816	N.A.	N.A.	952	105
1982	N.A.	680	73	3,317	-	N.A.	1,848	N.A.	N.A.	1,023	79
1986	N.A.	702	66	3,369	-	N.A.	1,894	N.A.	N.A.	1,029	79
Middle Atlantic											
1970*	-	2,087	856	1,357	-	143	312	-	325	247	244
1979	-	1,941	729	1,452	-	243	471	-	353	218	167
1980	-	1,912	651	1,465	-	245	486	-	364	221	150
1981	-	1,769	626	1,504	-	N.A.	501	-	385	221	146
1982	-	1,702	532	1,474	-	N.A.	504	-	405	190	120
1986	-	1,768	532	1,462	-	N.A.	486	-	420	183	120
East North Central											
1970*	1,128	2,769	966	3,209	-	567	601	165	987	462	427
1979	1,290	2,964	808	3,431	-	532	805	207	1,232	290	364
1980	1,475	2,762	813	3,532	-	535	834	216	1,284	319	344
1981	1,545	2,810	738	3,549	-	536	817	N.A.	1,305	362	309
1982	1,579	2,829	323	3,422	-	516	842	N.A.	1,322	387	130
1986	1,672	2,828	310	3,611	-	494	960	N.A.	1,376	434	119
West North Central											
1970*	176	262	555	959	-	44	206	24	265	266	153
1979	132	308	570	944	-	-	258	18	170	194	304
1980	63	377	566	899	-	-	265	17	100	195	322
1981	N.A.	386	523	905	-	-	N.A.	N.A.	N.A.	197	331
1982	N.A.	395	476	875	-	-	N.A.	N.A.	N.A.	236	318
1986	N.A.	409	425	942	-	-	N.A.	N.A.	N.A.	308	309
South Atlantic											
1970*	1,103	834	589	14,598	600	2	4,222	8,163	913	385	313
1979	1,145	1,053	760	16,766	607	-	5,707	8,779	875	358	441
1980	1,116	1,037	790	17,364	658	-	5,842	9,014	879	509	462
1981	1,158	1,062	779	17,814	656	-	6,064	9,159	893	593	448
1982	1,141	1,090	645	18,171	641	-	6,287	9,302	896	601	445
1986	1,084	1,178	602	19,080	642	-	7,253	9,089	838	812	445
East South Central											
1970*	333	248	906	7,586	285	-	2,481	2,820	429	844	634
1979	651	349	389	8,679	215	-	3,714	3,232	577	738	203
1980	672	347	363	9,251	N.A.	-	3,956	3,435	590	852	189
1981	669	353	352	9,653	N.A.	-	4,046	3,695	582	892	189
1982	682	364	347	9,750	N.A.	-	4,188	3,644	575	889	190
1986	916	371	340	11,136	N.A.	-	4,975	3,976	749	987	190
West South Central											
1970*	352	245	747	7,069	-	-	2,969	2,829	259	694	319
1979	708	319	634	9,824	-	-	3,795	4,304	603	886	237
1980	708	326	635	10,059	-	-	3,896	4,326	620	979	238
1981	717	336	603	10,356	-	-	4,005	4,393	651	1,070	237
1982	909	357	396	10,907	-	-	4,044	4,724	823	1,165	151
1986	662	369	397	10,818	-	-	4,288	4,644	570	1,170	146
Mountain and Pacific											
1970*	485	957	716	8,896	883	1,163	2,147	2,950	366	787	597
1979	743	1,164	341	9,288	729	977	2,506	3,369	594	961	151
1980	720	1,193	352	9,391	703	885	2,658	3,273	620	1,086	163
1981	706	1,215	342	9,807	693	824	2,801	3,507	600	1,208	175
1982	733	1,274	238	9,722	702	761	2,780	3,525	586	1,289	80
1986	755	1,473	227	9,786	703	729	2,880	3,518	582	1,275	81

(1) Includes screenings.
(2) Excludes defibrated/exploded pulp capacity of mills that produce hard pressed board, 1979-1986.
* Total capacity at end of year.
** Includes soda pulp for 1970 as follows (000 Tons): New England - 10, Middle Atlantic - 86, East South Central - 93, Mountain and Pacific - 4. Other years included in sulphate pulp.
N.A. Not Available

SECTION III

INPUTS AND RELATED DATA

This section presents data on the inputs of labor and materials required to manufacture paper and paperboard. It also presents data on capital expenditures by the paper industry on two bases: expenditures on a company basis, that is for those companies whose major sales are paper and allied products, and on an establishment basis, that is, capital expenditures at all establishments making paper and allied products, regardless of corporate ownership.

Table XVIII presents data on fuel and energy used in wood pulp, paper and paperboard mills for 1972 and 1979-1983. The table shows that the industry reduced its use of fuel oil to 9.7% of the total energy used in 1983, compared to 23.3% in 1972. In 1983, it derived only 45.6% of its energy from purchased fossil fuel and energy, compared to 59.5% in 1972.

Chart 2 on page 47 shows the changing trends in the various types of fuels and energy used by mills during the 1972-1983 period. It highlights the sharp decline in the use of oil since 1979 and the steady increase in the use of bark and wood residues. Use of coal also increased in the 1981-1983 period. Coal supplied 13.9% of the industry's energy needs in 1983, compared to 10.6% in 1972.

Table XIX presents data on recyclable paper collection, together with use in paper and paperboard manufacturing for the period 1970-1983. Other uses include recyclable paper in molded pulp and insulation. Import and export data are those reported by the Bureau of Census.

This table shows that recyclable paper at paper and paperboard mills in 1983 moved to a new high of 15.5 million tons. This was equivalent to 23.2% paper and paperboard production, which was fractionally below the averge rate for the 1973-1982 period.

Total recyclable paper recovered, which includes recyclable paper for uses other than at paper and board mills and for exports, moved to a new high of 18.5 million tons. New supply of paper and paperboard rose to a record high of 67.1 million tons. The recovery rate was thus 25.8%, which was a little below the 1982 level and nearly one percentage point below the 1979 high.

Table XX presents data on recyclable paper recovery by type of recyclable paper for the years 1977 through 1983. The table shows that use of mixed waste paper has been declining since 1977. Used corrugated, which showed stability in the 1979-1982 period, rose sharply to a record high of 7.3 million tons in 1983. Use of pulp substitutes and high grade deinking papers also gained in 1983. Exports of waste paper also recovered, but fell short of their 1980 high.

Tables XXIA and XXIB present data on U.S. production of total wood pulp and market wood pulp for the years 1970 through 1983. The wood pulp production data presented here are consistent with the capacity data shown in Table XIII, inasmuch as they exclude the production of defibrated and exploded pulp used in the manufacture of hard pressed board. The data on market pulp production, which accounts for about 12% of the total, are reflected in sales of paper companies. About half the paper grade chemical pulp is exported, the other half is sold in the domestic market. The special alpha and dissolving grades are sold almost entirely outside the paper industry for such uses as rayon, acetate and cellophane.

The data have been revised to show production as reported by the API's Pulp, Materials and Technology Group. API does not collect data on defibrated or exploded wood pulp or on screenings, so these data are drawn from Census sources. The data shown for defibrated and exploded wood pulp have been adjusted to remove that part used for hardboard. The table shows

that total wood pulp production established a new high in 1983 of 53.4 million tons. This table also presents the totals of wood pulp produced for the manufacture of paper and paperboard excluding the construction paper and board grades. API no longer reports monthly data on production of the construction grades.

Table XXII presents data on the consumption of wood pulp, by grade, at paper and board mills for the years 1971-1983, together with consumption of recyclable paper and other fibrous raw materials. This table also presents data on pulpwood consumption at wood pulp mills and consumption of wood pulp outside the paper and paperboard industry.

The data on wood pulp consumption in the 1971-1982 period are taken from reports by the Bureau of Census. The data on defibrated and exploded wood pulp were adjusted to exclude consumption at hard pressed board mills. The 1983 data are API estimates based on API's data on wood pulp shipments to the domestic market and Census data on wood pulp imports.

Data on labor input and productivity are shown in Tables XXIII and XXIV. Table XXIII presents data on employment and employee earnings in the paper and allied products industry, by major product groupings, for the period 1964 to 1983. These data are taken from reports of the Bureau of Labor Statistics, Department of Labor.

Table XXIV presents data on output per manhour and related data for the period 1947-1983. The 1947-1982 data are drawn from the productivity studies published by the Bureau of Labor Statistics. API publishes monthly estimates of these productivity data in its Paper, Paperboard and Wood Pulp Monthly Statistical Summary. These estimates are based on API's current data on paper and paperboard production and BLS data on paper industry employment and hours worked. The 1983 data presented in Table XXIV are based on these monthly estimates by API.

The output data shown in the third column of the table are also reported by the BLS. BLS bases its output data on the reported Census paper and paperboard production totals. However, as noted in the discussion of the regional data in Section II, the production totals in recent years appear to understate the actual levels, so that this study may be also understating the growth in productivity in recent years.

Table XXV presents data on employee costs in the paper and allied products industry, including wages and salaries as well as supplements to wages and salaries, as presented in the Department of Commerce figures on National Income.

Table XXVI presents data on capital expenditures in the paper and allied products industry. The first column shows capital expenditures by paper and allied products companies - that is, those companies whose major products are in the paper and allied products industry. The data refer to total company capital expenditures and include capital expenditures in subsidiary companies and divisions not in the paper industry. They exclude the expenditures made by the pulp and paper subsidiary companies of corporations whose main business falls under a different industry classification. These figures are published quarterly by the Bureau of Economic Analysis and represent the most current data available on capital expenditures.

The other data in this table represent total capital expenditures at the mills and plants of the industry, regardless of company ownership. They include all mills and plants producing pulp, paper, paperboard and converted products and are normally the most precise measures of capital expenditures for paper and allied products. The data are published at the four-digit SIC level in the Census and Survey of Manufactures. The latest data are for 1982.

The Bureau of Census informed us last year that its new system of sampling to collect the establishment data for the 1979-1981 surveys may well have resulted in an understatement in capital expenditures for those years. In 1982 the procedure is different. The data shown on Table XXVI for 1982 were collected as part of the broad-based 1982 Census of Manufactures. The Census is compiled every five years and represents a survey of all the mills and plants in the industry.

As a result of this census, the Department of Commerce was also able to revise some of the data for 1981, and these revisions appear in the table. The revisions showed a higher level of capital expenditures at pulp mills (Industry 2611) and paper mills (Industry 2612) than had been indicated in the 1981 Survey of Manufactures.

The new data are more consistent with the earlier figures, but still differ significantly from the total capital expenditure data shown for companies classified in the paper and allied products category and listed in the first column of this table. The difference in the two series, as noted above, is that the company data do not include capital expenditures at paper establishments made by non-paper companies, but do include expenditures by paper companies for their non-paper operations. Nonetheless, it does appear that the two sets of data — the establishment data and the company data — are diverging. It would appear that the company data probably overstate the expenditures by the industry but there is no reliable information available to determine just how large this overstatement is.

Table XXVIIA presents the latest information on capital expenditures by the pulp and paper industry for environmental protection as reported by the National Council of the Paper Industry for Air and Stream Improvement. The table shows that the paper industry is expected to spend about $342 million on pollution abatement equipment in 1984 and that this level is close to the 1978-1983 average level.

Table XXVIIB shows data on expenditures by paper and allied products companies for research and development, as reported by the National Science Foundation. Comparison of these data with the sales of paper and allied products companies indicate that the industry is presently spending about 1% of its total sales for Research and Development projects.

The primary raw material of pulp, paper and paperboard production is the tree. Table XXVIII presents data taken from the latest edition of the Forest Service Division of the U.S. Department of Agriculture's An Analysis of the Timber Situation in the United States 1952-2030. This report presents the Forest Service's detailed analysis of conditions in the commercial forests of the United States, together with analyses and forecasts of trends in the major markets for the forest products industry, including the pulp and paper industry.

These reports by the Forest Service have been made periodically for over 100 years and have made contributions to public and private policies concerning forest management.

The data presented here, describes ownership as of January 1, 1977, the latest available. In that year, forest industry companies owned 13.9% of the commercial forest land of the U.S. The table also shows that as of that date there was considerable potential for increased commercial removals of softwoods in every section of the U.S. except the Pacific Coast States and that all regions could expand their removal of hardwoods long before the rate of removals plus mortality reached the rate of total growth. The data on growth and removal and mortality were taken from Table 3.45 of the Timber Situation report, and refer to the year 1976. This table also presents this information by state. Similar information in terms of thousand board feet is shown on Table 3.46.

There was a sharp decline in the output of the timber industry in 1980. Throughout the 1980-1982 period, when housing starts were far below the levels of the previous 25 years, the demand for timber was sharply reduced. Even with the recovery in housing starts in 1983, there is little doubt that the data presented in this table on removals are much higher than the present rate.

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CHART 2

PULP, PAPER & PAPERBOARD INDUSTRY

Changing Fuel Mix, 1972 - 1983

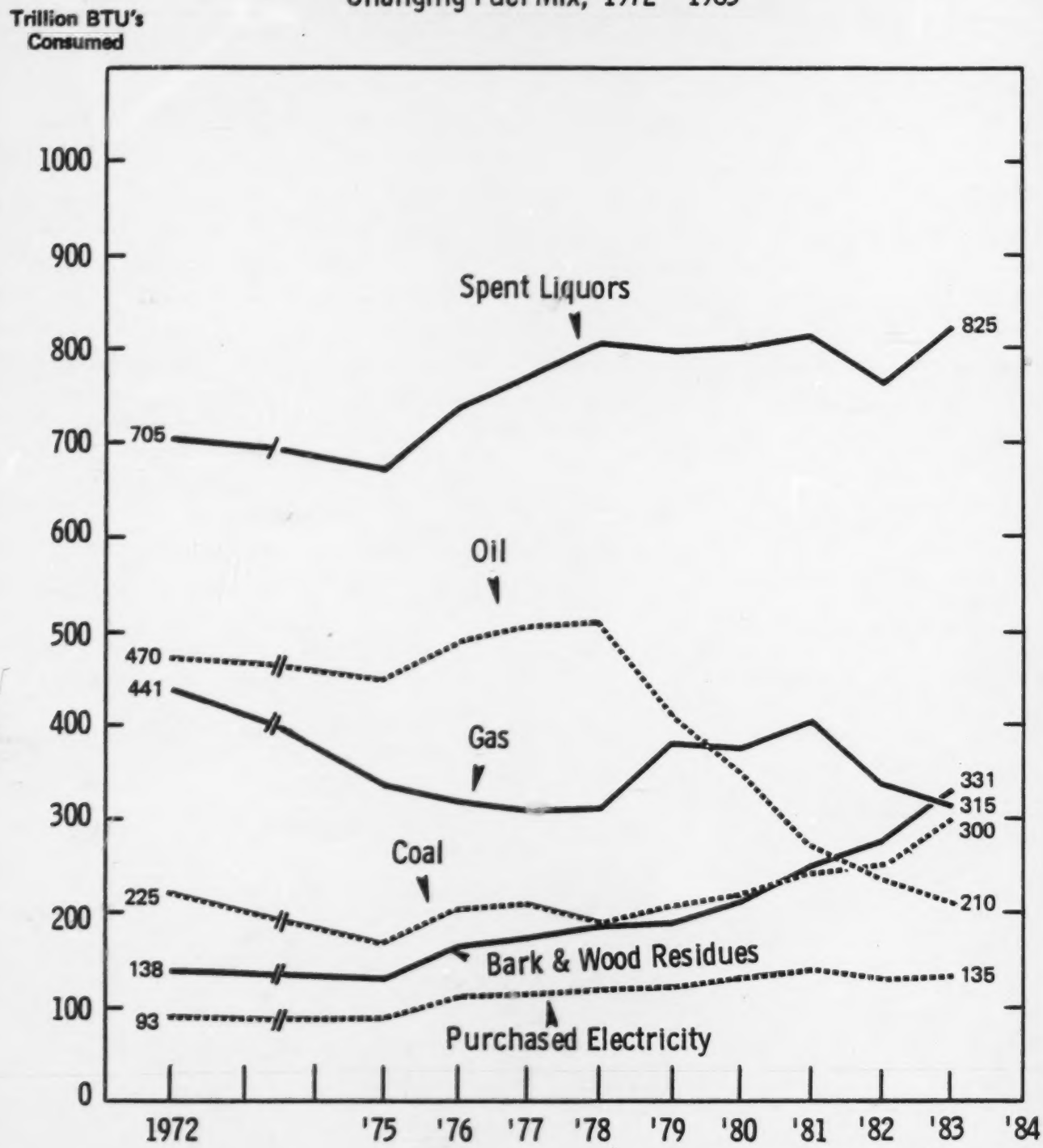

TABLE XVIII

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1979 - 1983

		1972*R			1979*			1980*		
SOURCE	UNITS	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+
Purchased Electricity	MMKWH	27,231.4	92,584.0	4.4	37,830.2	128,625.6	5.9	39,701.0	134,982.3	6.2
Purchased Steam	MM. lbs	19,723.4	22,815.7	1.1	14,260.6	16,496.0	0.8	12,882.1	14,909.4	0.7
Coal	M tons	9,042.3	224,858.0	10.6	8,832.7	217,723.7	9.9	9,210.2	226,898.9	10.4
Residual Fuel Oil	M 42 gal.BBL	71,299.8	448,469.9	21.2	64,740.8	406,840.0	18.5	55,368.7	348,309.6	16.0
Distillate Fuel Oil	M 42 gal.BBL	3,729.7	22,203.5	1.1	1,858.4	11,040.9	0.5	1,357.7	8,103.9	0.4
Liquid Propane Gas	M gal.	28,702.3	2,641.4	0.1	17,210.9	1,586.1	0.1	21,193.0	1,955.7	0.1
Natural Gas	MMCF	432,964.4	441,388.4	20.9	377,107.1	387,124.6	17.6	375,215.8	384,450.1	17.7
Other Purchased Energy			1,646.8	0.1		5,621.5	0.3		5,421.7	0.2
Energy Sold			(-13,242.6)			(-21,164.0)			(-21,740.4)	
Total Purchased Fossil Fuel and Energy			1,243,365.1	59.5		1,153,894.4	53.6		1,103,291.2	51.7
Hogged Fuel (50% Moisture Content)	M Tons	5,237.7	42,480.3	2.0	12,339.9	100,603.7	4.6	14,296.0	118,656.3	5.4
Bark (50% Moisture Content)	M Tons	10,440.9	95,274.8	4.5	10,830.3	96,356.0	4.4	11,874.1	103,488.5	4.8
Spent Liquor (Solids)	M Tons	55,669.8	704,650.0	33.4	65,037.5	803,625.7	36.6	65,615.0	811,305.6	37.3
Self-Generated Hydroelectric Power	MMKWH	2,673.5	9,091.9	0.4	2,736.8	9,304.8	0.4	2,449.9	8,328.9	0.4
Other Self-Generated Energy			3,004.2	0.2		8,608.4	0.4		8,389.0	0.4
Total Self-Generated & Waste Fuels			854,501.2	40.5		1,018,498.6	46.4		1,050,168.3	48.3
Total Energy			2,097,866.3	100.0		2,172,393.0	100.0		2,153,459.5	100.0

* Based on a sample of 91.3% of total dried pulp, paper and paperboard for 1980, 90.2% for 1979, and 89.3% for 1972.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
Negl. Negligible
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XVIII (Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1979 - 1983

		1981*			1982*R			1983*		
SOURCE	UNITS	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+
Purchased Electricity	MMKWH	41,163.3	139,998.9	6.5	39,032.3	132,845.2	6.5	40,530.1	137,934.3	6.4
Purchased Steam	MM lbs.	12,996.9	15,077.9	0.7	12,681.7	14,538.8	0.7	15,184.1	16,982.0	0.8
Coal	M tons	10,075.1	246,380.4	11.4	10,364.3	252,441.6	12.3	12,132.3	299,803.0	13.9
Residual Fuel Oil	M 42 gal BBL	41,890.6	263,598.4	12.2	36,778.8	231,854.0	11.3	32,466.0	204,442.6	9.4
Distillate Fuel Oil	M 42 gal BBL	1,320.2	7,886.2	0.4	968.0	5,744.9	0.3	1,002.1	5,991.0	0.3
Liquid Propane Gas	M gal	22,255.8	2,050.1	0.1	27,439.6	2,522.9	0.1	25,169.1	2,315.6	0.1
Natural Gas	MMCF	394,445.4	403,184.1	18.6	332,824.5	341,454.2	16.7	309,309.6	314,877.5	14.6
Other Purchased Energy			2,826.1	0.1		3,208.6	0.1		3,060.6	0.1
Energy Sold			(-21,710.4)			(-18,843.7)			(-21,568.0)	
Total Purchased Fossil Fuel and Energy			**1,059,291.7**	**50.0**		**965,766.5**	**48.0**		**963,838.6**	**45.6**
Hogged Fuel (50% Moisture Content)	M tons	17,816.9	149,136.8	6.9	19,758.1	165,213.0	8.1	25,361.3	212,114.0	9.8
Bark (50% Moisture Content)	M tons	12,032.8	104,210.9	4.8	13,065.2	112,972.2	5.5	13,626.9	118,237.7	5.5
Spent Liquor (Solids)	M tons	66,982.9	811,699.4	37.5	62,550.4	769,055.6	37.5	68,849.0	824,179.3	38.1
Self-Generated Hydroelectric Power	MMKWH	2,772.7	9,428.9	0.4	2,846.0	9,684.3	0.5	2,851.9	9,705.4	0.5
Other Self-Generated Energy			8,084.9	0.4		7,938.3	0.4		11,600.0	0.5
Total Self-Generated & Waste Fuels			**1,082,560.9**	**50.0**		**1,064,863.4**	**52.0**		**1,175,836.4**	**54.4**
Total Energy			**2,141,852.6**	**100.0**		**2,030,629.9**	**100.0**		**2,139,675.0**	**100.0**

* Based on a sample of 92.4% of total dried pulp, paper and paperboard for 1983, 93.5% for 1982, and 92.0% for 1981.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XIX

UNITED STATES

RECYCLABLE PAPER UTILIZATION AND RECOVERY

1970 - 1983

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Recyclable Paper Consumption at Paper & Board Mills	Recyclable Paper Utilization Rate	Recyclable Paper for Molded Pulp, Insulation and Other Uses	Exports	Imports	Total Recyclable Paper Recovered	Recyclable Paper Recovery Rate
1970	51,671	55,969	11,803	22.8%	418	408	(67)	12,562	22.4%
1971	53,162	57,451	12,106	22.8%	442	419	(68)	12,899	22.4%
1972	57,434	62,038	12,925	22.5%	447	415	(88)	13,699	22.1%
1973	59,900	65,003	14,094	23.5%	499	683	(87)	15,189	23.4%
1974	59,175	63,443	13,982	23.6%	489	1,307	(89)	15,689	24.7%
1975	51,096	54,231	11,748	23.0%	535	861	(72)	13,072	24.1%
1976	58,459	62,144	13,622	23.3%	630	1,273	(106)	15,419	24.8%
1977	60,170	64,371	14,058	23.4%	870	1,512	(92)	16,348	25.4%
1978	62,182	67,922	14,760	23.7%	502	1,599	(70)	16,791	24.7%
1979	64,510	69,961	15,361	23.8%	509	2,233	(78)	18,025	25.8%
1980	63,667	67,233	14,922	23.4%	473	2,664	(87)	17,972	26.7%
1981	64,403	68,101	15,037	23.3%	488	2,213	(79)	17,659	25.9%
1982R	61,119	64,897	14,433	23.6%	489	2,127	(74)	16,975	26.2%
1983P	67,073	71,491	15,504	23.1%	490	2,573	(100)	18,467	25.8%

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board, excluding hard pressed board.

New Supply equals production plus imports less exports, excluding hard pressed board. Imports and exports include paper and paperboard converted products.

Utilization Rate is the ratio of recyclable paper consumption to total production of paper and board.

Recovery Rate is the ratio of recyclable paper collected to new supply of paper and paperboard.

Total Recyclable Paper Recovered is the sum of Recyclable Paper Consumption at Paper and Board Mills, other uses and exports less imports.

P - Preliminary

R - Revised

TABLE XX

UNITED STATES

RECYCLABLE PAPER RECOVERY

1977-1983

(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper and Board Mills	Consumption for Molded Pulp, Insulation and Other Uses	Exports	Sub Total	Imports	Total
Used Corrugated						
1977	6,205	-	592	6,797	(30)	6,767
1978	6,721	-	577	7,298	(7)	7,291
1979	6,967	-	960	7,927	(11)	7,916
1980	6,866	-	1,209	8,075	(13)	8,062
1981	6,910	-	991	7,901	(12)	7,889
1982R	6,770	-	887	7,657	(11)	7,646
1983P	7,349	-	993	8,342	(14)	8,328
Old Newspapers						
1977	2,057	870	316	3,243	(42)	3,201
1978	2,000	502	366	2,868	(6)	2,862
1979	2,321	509	336	3,166	(4)	3,162
1980	2,391	473	425	3,289	(10)	3,279
1981	2,372	488	425	3,285	(9)	3,276
1982R	2,486	489	439R	3,414	(12)	3,402
1983P	2,462	490	461	3,413	(18)	3,395
Mixed Papers						
1977	2,773	-	341	3,114	-	3,114
1978	2,729	-	471	3,200	(52)	3,148
1979	2,648	-	648	3,296	(57)	3,239
1980	2,268	-	649	2,917	(55)	2,862
1981	2,233	-	474	2,707	(50)	2,657
1982R	1,707	-	497R	2,204	(45)	2,159
1983P	1,823	-	705	2,528	(62)	2,466
Pulp Substitutes						
1977	2,079	-	263	2,342	(20)	2,322
1978	2,242	-	92	2,334	(2)	2,332
1979	2,308	-	154	2,462	(4)	2,458
1980	2,254	-	205	2,459	(9)	2,450
1981	2,307	-	192	2,499	(8)	2,491
1982R	2,247	-	164	2,411	(1)	2,410
1983P	2,515	-	190	2,705	(5)	2,700
High Grade Deinking						
1977	944	-	-	944	-	944
1978	1,068	-	93	1,161	(3)	1,158
1979	1,117	-	135	1,252	(2)	1,250
1980	1,142	-	176	1,318	(*)	1,318
1981	1,216	-	130	1,346	(*)	1,346
1982R	1,224	-	140	1,364	(6)	1,358
1983P	1,355	-	225	1,580	(1)	1,579
Total All Grades						
1977	14,058	870	1,512	16,440	(92)	16,348
1978	14,760	502	1,599	16,861	(70)	16,791
1979	15,361	509	2,233	18,103	(78)	18,025
1980	14,922	472	2,664	18,058	(87)	17,971
1981	15,037	488	2,213	17,738	(79)	17,659
1982R	14,433	489	2,127	17,049	(74)	16,975
1983P	15,504	490	2,573	18,567	(100)	18,467

SOURCE: 1977-1982 API Capacity Surveys
1983 API Paper Recycling Division

* Less than 500 tons R - Revised P = Preliminary

TABLE XXIA

UNITED STATES PRODUCTION OF WOOD PULP

1971 - 1983

(000 Short Tons)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
WOOD PULP, TOTAL[1/]	42,083	44,561	46,359	45,948	41,604	45,520	47,878	48,666	50,533	51,791	52,982	49,979	53,366
Total API Grades[2/]	41,018	43,589	45,287	44,837	40,606	45,400	46,648	47,434	49,363	50,736	52,042	49,334	52,535
Sp. Alpha & Dissolving Grades	1,684	1,677	1,673	1,772	1,368	1,485	1,465	1,408	1,500	1,508	1,353	1,092	1,261
Paper and Board Grades	40,398	42,882	44,686	44,176	40,236	45,034	46,413	47,258	49,033	50,281	51,630	48,887	52,105
API Paper & Board Grades	39,333	41,910	43,614	43,065	39,238	43,914	45,183	46,026	47,863	49,226	50,690	48,242	51,275
Total Sulfite	2,024	2,129	2,293	2,304	2,025	2,169	2,042	1,747	1,773	1,844	1,802	1,587	1,617
Bleached Sulfite	1,656	1,796	1,920	1,914	1,659	1,750	1,653	1,418	1,378	1,459	1,403	1,242	1,307
Unbl. Sulfite	368	333	373	390	366	419	389	329	395	385	399	345	310
Total Sulfate	29,004	31,379	32,587	32,483	29,382	33,601	34,856	36,114	37,640	38,591	39,644	37,891	40,740
Bl. & Semi-Bl.[3/]	13,160	14,109	14,999	15,500	14,154	15,775	16,451	17,103	18,060	19,000	20,070	19,721	21,105
Unbl. Sulfate	15,844	17,270	17,588	16,983	15,228	17,826	18,405	19,011	19,580	19,591	19,574	18,170	19,635
Total Groundwood	4,716	4,607	4,842	4,490	4,412	4,311	4,408	4,134	4,392	4,766	5,320	5,064	5,067
Stone and Refiner	4,716	4,607	4,842	4,490	4,412	4,311	4,047	3,632	3,755	3,602	3,735	3,395	3,225
Thermo-mechanical							362	502	637	1,164	1,584	1,669	1,842
Semichemical	3,589	3,795	3,892	3,788	3,419	3,833	3,876	4,031	4,058	4,025	3,924	3,700	3,851
Total Other	1,065	972	1,072	1,111	998	1,120	1,230	1,232	1,170	1,055	940	645	830
Defib. or Exploded[4/]	940	850	950	980	890	1,010	1,120	1,122	1,070	975	850	625	800
Scr., Damaged[5/]	125	122	122	131	108E	110E	110E	110E	100E	80E	90E	20E	30E

SOURCE: Pulp, Materials and Technology Group - API

1/ These totals are comparable to the capacity data published on Table XIII, Wood Pulp Capacity. Excludes defibrated and exploded wood pulp for hardboard.

2/ Excludes Total Other

3/ Includes Soda Pulp

4/ Estimated to exclude wood pulp for hardboard. Source of original data is Bureau of the Census.

5/ Source: 1971-1974: U.S. Bureau of the Census

E - Estimated

TABLE XXIB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1971 - 1983

(000 Short Tons)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
MARKET WOOD PULP, TOTAL	4,634	5,025	4,925	5,139	4,358	4,864	4,803	5,122	5,678	6,464	6,202	5,732	6,416
Sp. Alpha & Dissolving	1,680	1,674	1,494	1,611	1,232	1,370	1,462	1,403	1,497	1,506	1,350	1,089	1,260
Paper Grade Chemical Total	2,944	3,303	3,409	3,492	3,079	3,428	3,263	3,638	4,117	4,889	4,852	4,643	5,144
Bleached Sulfite	405	468	465	392	314	292	219	231	248	348	263	205	230
Unbleached Sulfite	11	13	21	5	8	24	13	19	28	32	3	0	0
Bl. & Semi- Bl. Sulfate	2,325	2,705	2,813	2,905	2,770	2,999	2,895	3,291	3,729	4,377	4,442	4,315	4,772
Unbleached Sulfate	203	117	110	190	87	113	136	97	112	132	144	123	142
Paper Grades - Other	10	48	22	36	47	66	78	81	63	69	0	1	12

SOURCE: Pulp, Materials and Technology Group - API

TABLE XXII

UNITED STATES CONSUMPTION OF PULPWOOD, WOOD PULP AND OTHER FIBROUS MATERIALS

IN PAPER AND PAPERBOARD MILLS

1971 - 1983

(000 Short Tons)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980R	1981R	1982R	1983P
WOOD PULP, TOTAL*	42,787	45,928	47,267	46,736	40,863	45,894	46,824	48,223	50,058	51,181	51,437	48,412	51,840
Special Alpha and Dissolving Grades	71	77	73	58	42	36	44	42	42	41	38	31	40
Bleached Sulfite	2,135	2,161	2,009	2,136	1,768	1,985	1,884	1,587	1,726	1,664	1,591	1,303	1,300
Unbleached Sulfite	463	458	526	547	442	501	481	407	468	464	464	390	360
Bleached Sulfate	12,588	13,595	14,341	14,608	12,919	14,447	15,228	16,043	16,685)	18,941[1/]	18,992	18,885RS	20,450
Semi-bleached Sulfate	1,711	1,797	1,812	1,626	1,453	1,517	1,378	1,795	1,769)				
Unbleached Sulfate	16,495	17,971	18,437	17,825	15,430	17,527	18,149	18,694	19,307)	19,707	19,887	18,158	19,650
Soda	235	213	221	231	166	121	121	118	127)				
Groundwood	4,590	4,807	4,935	5,004	4,546	5,085	4,497	4,281	4,396	4,277	4,391	3,808	3,670
Thermomechanical	-	-	-	-	-	-	368	441	559	1,078	1,468	1,471	1,630
Semichemical	3,481	3,754	3,765	3,628	3,120	3,546	3,521	3,609	3,860	3,948	3,666	3,721RS	3,860
Defibrated or Expl. E	886	962	993	916	849	993	1,019	1,075	1,015	955	850	625	850E
Scngs, Damaged, etc.	133	135	137	157	125	135	134	131	104	106	90	20	30E
OTHER FIBROUS MAT., TOTAL	12,981	13,817	14,977	14,820	12,373	14,364	14,884	15,584	16,088	15,524	15,629	14,882	16,104
Recyclable Paper	12,106	12,925	14,094	13,982	11,748	13,622	14,058	14,760	15,361	14,922	15,037	14,433	15,504
All Other, incl. Straw, Rags, etc.	875	892	883	838	625	742	826	824	727	602	592	449	600E
PULPWOOD, TOTAL**	67,501	71,840	73,576	74,459	65,421	73,209	73,970	77,290	79,566	80,522	79,350	79,039	84,352
Softwood	50,932	53,751	54,868	54,634	48,932	54,789	55,509	57,096	58,654	58,860	58,500	57,032	60,673
Hardwood	16,568	18,089	18,708	19,825	16,489	18,420	18,461	20,194	20,912	21,662	20,850	22,007	23,679
Receipts of Residues	21,765	27,346	25,751R	29,949R	28,694	28,165	29,653	30,380	30,015	29,402	30,590	31,152	32,755

CONSUMPTION OF WOOD PULP IN OTHER THAN PAPER AND PAPERBOARD MILLS

TOTAL WOOD PULP	1,116	1,118	1,047	1,152	785	886	879	884	909	825	788	N.A.	N.A.
Sp.Alpha & Dis. Grades	933	929	869	937	600	705	702	676	701	629	609	N.A.	N.A.
Other Wood Pulps	183	189	178	216	185	181	177	208	208	196	179	N.A.	N.A.

SOURCE: Consumption in paper and board mills of wood pulp - 1971-1982 - Bureau of the Census, Industry Division
1983 - American Paper Institute
Consumption of recyclable paper - American Paper Institute
Consumption of other fibrous materials - Bureau of the Census, Industry Division, 1971-1980; 1981-1983, A.P.I.
Consumption of pulpwood - American Pulpwood Association

* Includes figures for Alaska; excludes wood pulp for hard pressed board.

** Includes slabs, chips and mill waste. All pulpwood data in thousands of cords.

P - Preliminary R - Revised E - Estimated by American Paper Institute

Note: Details may not add to totals due to rounding of figures to nearest thousand.
Recyclable paper consumption - Bureau of the Census data (000 tons)
1970 - 10,594; 1971 - 11,000; 1972 - 11,703; 1973 - 12,374; 1974 - 12,098; 1975 - 10,367;
1976 - 11,874; 1977 - 12,103; 1978 - 12,586; 1979 - 13,012; 1980 - 12,583; 1981 - 12,872; 1982 - 12,436; 1983 - Not Available

1/ Soda included in bleached and semibleached sulfate wood pulp.

N.A. - Not Available RS - Revised Series; based on API data

TABLE XXIII

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1965 - 1983

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPER AND ALLIED PRODUCTS - SIC 26					
1965	2.65	114.22	43.1	639.1	497.7
1966	2.75	119.35	43.4	666.9	518.2
1967	2.87	122.84	42.8	679.1	526.3
1968	3.05	130.85	42.9	691.2	536.2
1969	3.24	139.32	43.0	711.1	550.6
1970	3.44	144.14	41.9	705.5	543.2
1971	3.67	154.51	42.1	681.9	521.8
1972	3.95	169.06	42.9	688.9	531.6
1973	4.20	180.18	42.9	704.6	543.1
1974	4.53	191.59	42.2	706.1	544.3
1975	5.01	208.42	41.6	642.0	479.7
1976	5.47	232.48	42.5	675.5	508.3
1977	5.96	255.68	42.9	691.6	518.2
1978	6.52	279.71	42.9	698.7	524.7
1979	7.13	303.74	42.6	706.8	535.6
1980	7.84	330.85	42.2	692.8	522.7
1981	8.60	365.50	42.5	688.5	518.4
1982	9.32	389.58	41.8	662.4	493.9
1983	9.94	423.44	42.6	661.6	494.7
PAPER AND PULP* - SIC 261,262,266					
1965	2.88	128.16	44.5	211.9	168.2
1966	3.02	135.30	44.8	215.1	169.9
1967	3.16	139.99	44.3	217.1	170.5
1968	3.35	149.08	44.5	217.7	170.2
1969	3.58	160.38	44.8	222.7	173.6
1970	3.80	166.06	43.7	218.8	168.6
1971	4.05	177.80	43.9	208.8	160.6
1972	4.37	194.03	44.4	206.5	160.6
1973	4.66	208.77	44.8	208.7	162.7
1974	5.00	222.50	44.5	210.7	164.0
1975	5.54	240.44	43.4	196.8	150.3
1976	6.12	272.95	44.6	203.9	156.4
1977	6.75	302.40	44.8	205.4	157.3
1978	7.44	334.80	45.0	200.1	151.1
1979	8.26	372.53	45.1	205.9	154.7
1980	9.15	407.18	44.5	203.3	152.2
1981	10.06	449.68	44.7	203.8	153.2
1982	10.87	480.45R	44.2	198.5	149.0
1983	11.71	521.10	44.5	199.3	149.9
PAPER MILLS EXCEPT BUILDING PAPER - SIC 262					
1972	4.36	194.46	44.6	179.2	138.6
1973	4.64	209.26	45.1	180.8	140.1
1974	4.97	222.66	44.8	182.7	141.1
1975	5.52	240.67	43.6	170.9	129.5
1976	6.10	273.89	44.9	176.4	134.2
1977	6.70	300.83	44.9	175.7	133.6
1978	7.43	336.58	45.3	170.3	127.6
1979	8.24	374.92	45.5	176.8	131.5
1980	9.09	408.14	44.9	175.0	129.7
1981	10.00	454.00	45.4	175.6	130.9
1982	10.86	485.44	44.7	171.3	127.2
1983	11.70	524.16	44.8	173.7	129.1

* Includes Building Paper and Board Mills

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington, D.C.

NOTE: Data on hours and earnings refer to Production Non-Supervisory Workers. R - Revised

TABLE XXIII (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1965 - 1983

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPERBOARD - SIC 263					
1965	2.93	132.14	45.1	68.1	54.1
1966	3.06	138.62	45.3	71.2	55.9
1967	3.19	142.59	44.7	72.1	56.4
1968	3.37	152.32	45.2	72.0	57.2
1969	3.61	163.53	45.3	71.1	56.4
1970	3.86	171.77	44.5	71.1	56.8
1971	4.14	184.23	44.5	66.0	51.4
1972	4.47	200.70	44.9	66.0	52.6
1973	4.78	212.23	44.4	66.1	52.5
1974	5.14	225.65	43.9	65.5	52.3
1975	5.74	243.95	42.6	60.8	47.9
1976	6.40	280.32	43.8	65.6	52.2
1977	6.94	312.30	45.0	66.9	52.4
1978	7.67	340.55	44.4	67.3	52.8
1979	8.38	367.88	43.9	65.5	51.9
1980	9.28	408.32	44.0	65.1	51.0
1981	10.23	450.12	44.0	63.5	49.8
1982	11.11	474.40	42.7	60.4	46.7
1983	12.12	526.01	43.4	58.9	45.1
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 264					
1965	2.39	99.42	41.6	159.6	116.8
1966	2.48	104.16	42.0	171.2	125.3
1967	2.60	107.38	41.3	175.5	128.8
1968	2.77	113.99	41.3	179.8	131.6
1969	2.94	121.30	41.4	187.6	136.4
1970	3.12	126.05	40.4	190.1	138.4
1971	3.36	136.42	40.6	190.2	139.2
1972	3.61	151.26	41.9	196.4	143.1
1973	3.85	161.32	41.9	205.4	148.8
1974	4.19	173.05	41.3	210.6	155.8
1975	4.57	185.09	40.5	190.5	133.6
1976	4.92	202.21	41.1	200.8	140.8
1977	5.33	219.60	41.2	210.2	147.5
1978	5.82	239.20	41.1	217.8	155.9
1979	6.31	259.34	41.1	221.4	163.7
1980	6.89	279.73	40.6	219.6	162.7
1981	7.58	310.02	40.9	220.1	162.0
1982	8.20	332.10	40.5	213.5R	154.7R
1983	8.71	361.47	41.5	212.9	154.7
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1965	2.47	104.23	42.2	199.6	158.6
1966	2.56	109.06	42.6	209.3	167.1
1967	2.66	110.92	41.7	214.4	170.7
1968	2.82	117.88	41.9	221.7	177.2
1969	3.00	125.10	41.7	229.6	184.2
1970	3.18	128.79	40.5	225.0	179.2
1971	3.40	139.06	40.9	215.7	170.4
1972	3.64	151.06	41.5	219.9	173.3
1973	3.88	160.63	41.4	224.5	179.0
1974	4.16	168.06	40.4	219.3	172.2
1975	4.59	186.35	40.6	193.9	148.0
1976	4.95	204.44	41.3	205.2	158.9
1977	5.36	224.05	41.8	209.1	161.0
1978	5.89	247.97	42.1	213.5	164.9
1979	6.37	263.08	41.3	214.0	165.4
1980	6.94	285.93	41.2	204.9	156.8
1981	7.53	312.50	41.5	201.2	153.5
1982	8.16R	329.66R	40.4	190.0	143.6R
1983	8.59	358.20	41.7	190.5	145.0

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 & C-2, & Labstat Series Report, U.S. Dept. of Labor, Wash.,DC
NOTE: Data on hours and earnings refer to Production and Non-Supervisory Workers. R - Revised

TABLE XXIV

PULP, PAPER AND BOARD MILLS

OUTPUT PER MAN-HOUR

1947 - 1983

YEAR	Output per Employee Hour		Output	Employee Hours	
	Production Workers	All Employees		Production Workers	All Employees
			-1977 = 100-		
1947	29.4	32.4	31.7	108.0	97.9
1948	N.A.	N.A.	33.0	N.A.	N.A.
1949	31.3	33.8	30.7	98.0	90.7
1950	35.0	38.1	36.7	104.8	96.3
1951	36.8	39.8	40.0	108.7	100.6
1952	36.3	38.9	38.0	104.7	97.6
1953	36.3	38.9	40.6	111.8	104.3
1954	37.9	40.4	41.4	109.1	102.5
1955	40.4	43.2	46.4	114.9	107.3
1956	42.5	45.1	49.2	115.7	109.1
1957	42.9	45.1	47.9	111.7	106.3
1958	44.1	46.2	48.1	109.1	104.2
1959	46.9	49.0	53.6	114.4	109.4
1960	48.8	50.6	54.8	112.2	108.3
1961	52.2	53.9	56.5	108.3	104.9
1962	54.2	56.0	59.5	109.8	106.3
1963	57.4	59.3	62.7	109.2	105.8
1964	60.3	62.3	66.7	110.6	107.0
1965	63.7	65.4	70.6	110.9	107.9
1966	66.9	68.7	76.1	113.8	110.8
1967	66.1	67.6	75.9	114.8	112.2
1968	69.9	71.9	81.6	116.8	113.5
1969	72.5	74.8	85.9	118.5	114.9
1970	75.8	77.5	85.1	112.2	109.8
1971	80.1	81.0	86.0	107.3	106.2
1972	86.7	87.9	92.8	107.0	105.6
1973	90.2	91.5	97.1	107.7	106.1
1974	90.5	91.5	96.7	106.8	105.7
1975	87.7	86.7	82.1	93.6	94.7
1976	95.0	95.0	95.6	100.6	100.6
1977	100.0	100.0	100.0	100.0	100.0
1978	103.7	103.2	102.4	98.7	99.2
1979	106.2	105.4	106.0	99.8	100.6
1980	106.4R	105.2R	105.3R	99.0	100.1
1981	105.5R	104.4R	102.4R	97.1R	98.1R
1982	108.4R	106.3R	98.2R	90.6R	92.4R
1983	118.0	115.8	107.5	91.1	92.8

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics.
R - Revised

TABLE XXV

COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY

IN THE GROSS NATIONAL PRODUCT ACCOUNTS

1948 - 1983

YEAR	COMPENSATION OF EMPLOYEES			Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees (000)	Number of Full Time & Part Time Employees (000)	Average Annual Earnings per Full Time Equivalent Employee (Dollars)
	Total	Wages and Salaries	Supplements to Wages & Salaries*				
	(Millions of Dollars)						
1948	1,577	1,501	76	122	470	470	3,194
1949	1,548	1,465	83	140	451	453	3,248
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,222	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	955	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,333	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,435	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,192	10,182	2,011	1,889	679	692	14,996
1978	13,498	11,219	2,258	2,126	690	700	16,259
1979	14,965	12,379	2,538	2,128	697	707	17,760
1980	16,212	13,384	2,828	2,564	681	691	19,653
1981R	17,640	14,537	3,103	2,842	679	687	21,409
1982R	18,246	15,007	3,239	3,249E	650	664	23,088
1983	19,665	15,985	3,680	4,117E	649	661	24,630

SOURCE: Bureau of Economic Analysis, Department of Commerce, Gross National Product Accounts, Table 6

* Total Less Wages and Salaries

R - Revised E - Estimated

TABLE XXVI

PAPER AND ALLIED PRODUCTS

CAPITAL EXPENDITURES

1947 - 1983

(Million Dollars)

YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	AT PAPER AND ALLIED PRODUCTS ESTABLISHMENTS								
			PRIMARY MILLS					CONVERTED PLANTS		
		Total SIC 26	Total Primary 261-3, 266	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Building Paper & Board Mills 266	Total Converting 264,5	Converted Paper Products 264	Paperboard Containers & Boxes 265
1947	N.A.	407	291	86	205		a	116	64	52
1948	383	N.A.								
1949	298	315	212		212a		a	103	52	51
1950	327	299	212		212a		a	87	51	36
1951	420	389	263		263a		a	126	61	65
1952	364	371	274		274a		a	97	61	36
1953	409	397	276		276a		a	121	74	47
1954	455	533	371		371a		a	162		162
1955	510	556	389		389a		a	167		167
1956	800	750	548		548a		a	202	106	96
1957	810	767	585		585a		a	182		182
1958	570	634	417	43	259	102	13	218	82	136
1959	650	686	453	92	215	117	29b	233	79i	154
1960	770	658	442	35	246	136	25b	216	107i	109
1961	620	685	473	49	285	108	31b	212	99	113
1962	620	742	459	34	277	126	22b	283	122i	161
1963	700	708	440	39	233	160	8	270	129	141
1964	910	902	589	67	296	214	12	313	153	160
1965	1,020	1,186	826	112	496	200	18	359	180	179
1966	1,320	1,422	961	113	575	255	18	461	212	249
1967	1,490	1,585	1,122	122	581	399	20	463	226	237
1968	1,220	1,238	766	77	487	185	17	473	231	242
1969	1,620	1,421	879	133	555	158	33	543	263	280
1970	1,740	1,397	882	122	503	239	18	516	289	227
1971	1,290	1,197	755	135	374	228	18	442	262	180
1972	1,460	1,335	841	136	372	314	19	495	289	206
1973	1,990	1,530	997	119	508	344	26	531	304	227
1974	2,890	2,214	1,558	136	723	637	63	657	315	342
1975	2,980	2,718	1,959	294	832	807	26	759	412	347
1976	3,110	3,010	2,282	375	1,044	844	19	729	394	335
1977	3,600	3,295	2,367	301	1,115	934	17	928	507	421
1978	3,990	3,736	2,638	195	1,424	1,000	19	1,100	604	496
1979	5,550	4,447*	3,231	240	1,714	1,229	48	1,216	725	491
1980	6,800	5,128*	3,726	250	1,897	1,539	40	1,402	774	628
1981	6,720	5,202R	3,957R	521R	2,435R	974	27	1,245	746	499
1982	5,970	5,087	3,820	659	1,869	1,278	14	1,267	780	487
1983	6,180	N.A.								

SOURCE: Paper and Allied Products Companies, Bureau of Economic Analysis
Paper and Allied Products Establishments, Bureau of the Census

NOTE: Establishment data for 1982, 1977, 1972, 1967, 1962, 1958, 1954 and 1947 from Census of Manufacturers; data for other years from Survey of Manufactures.

NOTES: (a) Capital expenditures at building paper and board mills included with expenditures at pulp, paper and board mills.
(b) Data as originally published.
(i) Imputed from available data.

N.A. Not Available R - Revised

* Based on revised sampling techniques which resulted in some understatement of the total.

TABLE XXVIIA

PULP AND PAPER INDUSTRY ENVIRONMENTAL PROTECTION

CAPITAL EXPENDITURES THROUGH 1983 AND PLANNED THROUGH 1984

1966-1984

(Million Dollars)

YEAR	Water	Air	Solid Waste Disposal From Manufacturing	Total	Percent of Total Capital Expenditures
1966	270	129	10	409	
1967	44	31(E)	1(E)	76	
1968	49	43(E)	1(E)	93	
1969	74	52(E)	2(E)	128	
1970	120	65(E)	2(E)	187	
1971	134	66	2.5	203	
1972	205	129	5	339	38
1973	179	162	10	351	34
1974	216	296	11	523	31
1975	286	341	18	645	30
1976	319	216	29	564	29
1977	278	148	17	443	19
1978	182	149	32	363	16
1979	178	158	23	359	12
1980	140	190	38	368	9
1981	91	120	49	260	6
1982	81	214	23	318	9
1983	118	149	60	327	6
Through 1983	2,964	2,658	334	5,956	
Planned 1984	82	195	65	342	

SOURCE: National Council of the Paper Industry for Air and Stream Improvement

TABLE XXVIIB

PAPER AND ALLIED PRODUCTS

EXPENDITURES ON

RESEARCH AND DEVELOPMENT

1966 - 1984

(Million Dollars)

YEAR	Total Expenditures
1966	117
1967	128
1968	144
1969	188
1970	178
1971	187
1972	189
1973	194
1974	237
1975	249
1976	313
1977	336
1978	391
1979	454
1980	508
1981	557
1982	626
1983	532*
1984	560*

SOURCE: National Science Foundation

* McGraw Hill Economics Department Estimate

TABLE XXVIII

WOOD SUPPLY AND DEMAND

	Total	New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
	---Million Acres---							
Commercial Forest Land in U.S. January 1, 1977	482.5	31.0	46.4	47.6	41.2	188.0	70.5	57.8
Ownership by Forest Industry Companies	68.8	9.7	3.2	4.2	0.8	36.2	12.5	2.1
% of Industry	14.3%	31.4%	6.9%	8.8%	2.0%	19.3%	17.8%	3.6%
	---Million Cubic Feet---							
All Species								
Total Growth	21,664	1,345	1,795	1,617	1,035	10,705	3,478	1,690
Removals	14,229	639	663	719	637	6,571	4,154	845
Mortality	3,925	226	322	529	142	1,121	1,087	498
Removals and Mortality as Percent of Growth	83.8%	64.4%	54.9%	77.2%	75.3%	71.9%	150.7%	79.5%
Softwoods								
Total Growth	12,285	838	229	463	69	6,158	2,938	1,589
Removals	10,046	396	103	181	25	4,471	4,028	842
Mortality	2,303	137	54	130	7	512	1,003	459
Removals and Mortality as Percent of Growth	100.5%	63.6%	68.6%	67.3%	46.7%	80.9%	171.2%	81.8%
Hardwoods								
Total Growth	9,380	506	1,566	1,154	965	4,547	541	100
Removals	4,183	244	560	538	612	2,100	126	3
Mortality	1,622	88	268	399	135	609	84	39
Removals and Mortality as Percent of Growth	61.9%	65.6%	52.9%	81.2%	77.4%	59.6%	38.8%	42.1%

New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
Connecticut	Delaware	Michigan	Illinois	North Carolina	Alaska	Idaho
Maine	Maryland	Minnesota	Indiana	South Carolina	Oregon	Montana
Massachusetts	New Jersey	North Dakota	Iowa	Virginia	Washington	South Dakota (West)
New Hampshire	New York	South Dakota (East)	Kansas	Florida	California	Wyoming
Rhode Island	Pennsylvania	Wisconsin	Kentucky	Georgia	Hawaii	Arizona
Vermont	West Virginia		Missouri	Alabama		Colorado
			Nebraska	Mississippi		Nevada
			Ohio	Tennessee		Mexico
				Arkansas		Utah
				Louisiana		
				Oklahoma		
				Texas		

SOURCE: An Analysis of the Timber Situation in the United States 1952-2030, U.S. Department of Agriculture, Forest Service, Forest Resource Report No. 23, December 1982. Commercial Forest Land and Ownership Table 3.4. Data refer to 1976 Growth, Removals and Mortality Table 3.45

SECTION IV
FINANCIAL DATA ON THE PAPER INDUSTRY

Data on the changing financial condition of paper companies are presented in Table XXIX of this section. The data are drawn from the report, "Quarterly Financial Report for Manufacturing, Mining & Trade Corporations", now being reported by the Bureau of Census, Department of Commerce. From 1971 to 1982, the report had been prepared by the Federal Trade Commission. Prior to 1971, the Federal Trade Commission prepared the report jointly with the Securities and Exchange Commission.

The data represent the financial characteristics of corporations whose primary sales are products classified in the paper and allied products industry. The figures refer to the financial performance of the entire corporation. Many of the larger pulp and paper companies produce products not classified in this industry. In addition, a significant part of wood pulp, paper and paperboard capacity is owned by corporations whose major products are classified in other industry groups, including chemicals, metal containers, glass containers, printing and publishing, as well as lumber and wood products. Thus, the data reported for the paper and allied products industry include sales and income from non-paper subsidiary operations and exclude the paper and allied products divisions of corporations whose major business is in another industry.

Industrial classifications of corporations can vary over time. The Quarterly Financial Report continually reviews the status of the corporations, adjusts the classifications as required, and publishes adjusted data for the previous four quarters whenever such changes are significant. History shows that while the removal or addition of large companies may have major impacts on the reported sales volume, it generally has a small effect on the financial ratios such as after-tax profits to sales or to stockholders' equity.

Table XXIX includes information on cash flow (depreciation plus profits after taxes) along with data on dividends, which permits calculation of internally generated funds available for investment. In addition, the QFR reports quarterly data on long-term debt (loans from banks due in more than one year plus other long-term debts) which, taken together with data on net worth, permit calculation of total capital employed.

Table XXX presents price indexes of pulp, paper and allied products as published by the Bureau of Labor Statistics for the period 1968 through 1982. The price data are indexed to the base periods shown in the table. Component price indexes are combined into group indexes, with each weighted according to its relative importance to the total.

The BLS made a major change in its pulp, paper and allied products category in 1980, when it included an index of printing and publishing prices in the overall index of pulp, paper and allied products prices. Publishing accounts for roughly half the group's importance. Table XXX presents only the total printing and publishing index, without details.

Table XXX also shows the current product codes used by the BLS for the various indexes. In the API's Monthly Statistical Summary, which presents current data on the paper industry, the price index of pulp, paper and products, excluding building paper and board is published as being representative of the total industry trend.

The BLS is presently in the process of restructuring its Producer Price Index to have the individual sub-groupings match the Standard Industrial Classification grade codes. The restructuring is not yet complete. For the most part, data on the published categories started in June 1981 or December 1982; one component, namely corrugated and solid fibre boxes, started in March 1980.

Several of the new product codes now published by BLS were not included in this report inasmuch as the data were too limited to indicate a trend. Eventually, BLS will discontinue publishing the categories under the current commodity code and only show the price indexes according to Standard Industrial Classification codes. The data for several paperboard grades as shown in Table XXX were estimated on the basis of new codes identified on the SIC basis.

Table XXXI presents data on operating characteristics at paper and allied products mills and plants for 1981 and 1982 as published in the 1981 Survey of Manufactures and the 1982 Census of Manufactures. The table shows data at the 4-digit SIC level. Data on the total primary sector may be computed by adding the data shown for industries 2611, 2621, 2631 and 2661.

The value added data include payrolls. The value of shipments is equal to the cost of materials plus the value added by manufacture less the change in the value of year-end inventories. The shipments data refer to the value of all products shipped from the mills and plants included in these classifications. They differ from the value of shipments data presented in Table XV. The figures in Table XV show the value of shipments of the products listed; the figures in Table XXXI show the value of shipments of all products from the mills and plants whose major product is the one listed.

TABLE XXIX

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1983

(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Depreciation	Cash Inflow	Gross Cash Flow
1950	6,377	982	424	558	8.8	162	720	1,144
1951	8,022	1,417	858	559	6.9	183	742	1,600
1952	7,688	1,000	563	437	5.7	222	659	1,222
1953	8,371	1,005	554	450	5.4	242	692	1,246
1954	8,492	970	493	479	5.6	268	718	1,211
1955	9,847	1,206	601	604	6.1	310	914	1,515
1956	10,686	1,283	626	657	6.1	360	1,017	1,643
1957	10,420	1,020	497	521	5.0	376	897	1,394
1958 1/	10,256	899	440	460	4.5	406	866	1,306
1958 2/	10,658	987	481	506	4.7	423	929	1,410
1959	11,824	1,204	585	619	5.2	459	1,078	1,663
1960	11,764	1,135	546	587	5.0	480	1,067	1,613
1961	12,525	1.120	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	557	754	5.1	641	1,395	1,952
1965 1/	16,224	1,488	619	869	5.4	671	1,540	2,159
1965 2/	15,217	1,271	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	633	911	5.4	676	1,587	2,220
1967 2/	16,900	1,316	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	492	719	3.4	869	1,588	2,080
1971 1/	22,224	967	455	512	2.3	926	1,438	1,893
1971 2/	- - -

TABLE XXIX (Cont.)

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1983

(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long Term Debt	Total Capital	Net Profit After Taxes to Net Worth (%)
1950	178	380	5,055	N.A.	2,285	3,585	490	4,075	15.6
1951	200	359	6,005	N.A.	2,600	3,963	625	4,588	14.1
1952	196	241	6,301	4,643	2,777	4,298	784	5,082	10.1
1953	203	247	6,825	5,349	3,273	4,559	803	5,362	9.9
1954	227	252	7,085	5,694	3,367	4,963	908	5,871	9.7
1955	259	345	7,785	6,171	3,623	5,403	1,010	6,413	11.2
1956	273	384	8,492	7,028	4,213	5,772	1,286	7,058	11.4
1957	270	251	8,407	7,502	4,509	5,809	1,309	7,118	8.9
1958[1]	265	195	8,829	7,941	4,652	6,089	1,472	7,561	7.6
1958[2]	286	220	9,170	8,200	4,818	6,341	1,500	7,841	8.0
1959	290	329	9,721	8,740	5,062	6,642	1,512	8,154	9.3
1960	312	275	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	11,051	10,447	5,857	7,612	1,719	9,331	7.6
1962	340	288	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	12,560	12,380	6,585	8,304	1,967	10,271	9.1
1965[1]	409	461	13,850	13,378	7,321	8,672	2,439	11,111	10.0
1965[2]	350	403	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	14,621	14,662	8,131	8,710	3,104	11,814	10.5
1967[2]	391	405	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	19,679	18,160	9,969	10,305	4,822	15,127	7.0
1971[1]	418	94	20,424	19,001	10,194	10,652	5,239	15,891	4.8
1971[2]	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	19,810	18,816	9,903	10,615	4,973	15,588	8.9
1973[1]	416	1,025	21,377	19,998	10,616	11,536	5,073	15,609	12.5
1973[2]	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
1974[1]	519	1,668	23,696	19,093	11,524	12,958	5,346	18,304	16.8
1974[2]	530	1,754	26,088	21,856	12,012	13,602	6,457	20,059	16.8
1975	632	1,158	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	32,010	27,284	15,659	17,203	7,625	24,828	13.2
1977[1]	725	1,502	34,450	29,545	17,131	18,321	8,551	26,872	12,2
1977[2]	793	1,566	37,047	31,866	18,590	19,704	9,254	28,958	12.0
1978[1]	877	1,771	40,810	34,420	20,226	21,181	10,082	31,263	12.5
1978[2]	859	1,739	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	45,304	37,069	22,349	23,206	11,028	34,234	16.0
1980[1]	1,089	1,957	50,040	41,403	25,739	25,889	11,850	37,739	11.8
1980[2]	1,050	1,731	44,866	39,534	24,391	23,873	10,365	34,238	11.6
1980[3]	1,057E	1,743E	45,894	40,361	24,800	24,396	10,585	34,981	11.5
1981[1]	1,161	1,947	50,706	44,942	27,747	26,452	11,633	38,085	11.7
1981[2]	1,126	1,984	50,912	45,122	27,881	26,558	11,705	38,263	11.7
1982	1,104	355	52,915	48,235	29,711	26,705	13,149	39,854	5.5
1983[1]	1,139	1,197	56,126	51,692	32,208	27,509	13,946	41,455	8.5
1983[2]	1,137	1,191	54,821	50,957	31,826	27,219	13,565	40,784	8.5

See Page 62 for footnotes

TABLE XXX

WHOLESALE AND PRODUCERS PRICE INDEXES

FOR SELECTED SUBGROUPS AND CLASSES OF

WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1968 - 1982

(Index 1967 = 100)

	1968	1969	1970	1971	1972	1973	1974	1975
PULP, PAPER & ALLIED PRODUCTS	101.1	104.0	108.2	110.1	113.4	122.1	151.7	170.4
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	101.2	104.1	108.5	110.4	113.7	122.5	152.8	171.9
Wood Pulp Sub-Group	100.0	100.0	109.6	112.1	111.5	128.3	217.8	283.4
Sulphate, Bleached	100.0	100.0	109.5	111.6	110.5	128.3	220.0	281.2
Sulphite, Bleached	100.0	100.0	109.9	113.2	113.2	129.5	227.0	298.7
Paper Making Wood Pulp	(Index Dec. 1973 = 100)			--	--	--	148.1	193.4
Bleached Sulphate Hardwood Pulp	(Index Dec. 1973 = 100)			--	--	--	147.2	186.4
Dissolving Wood Pulp	(Index Dec. 1973 = 100)			--	--	--	139.8	180.2
Waste Paper Sub-Group	130.0	138.7	125.0	112.1	133.6	197.4	265.5	110.2
No. 1 News	137.1	122.9	108.1	103.1	119.2	137.2	201.6	111.8
No. 1 Mixed	152.6	168.2	130.3	122.8	155.2	230.8	330.8	103.6
Old Corrugated Boxes	128.5	140.4	135.5	111.5	131.6	223.3	251.4	89.7
Semichemical Kraft Clippings	125.6	149.1	145.7	127.2	153.8	223.7	288.8	134.4
Mixed Kraft Clippings	131.5	157.6	153.6	130.9	163.2	247.1	323.2	138.3
White News Blanks	91.9	89.9	84.3	82.5	85.8	124.4	212.0	111.7
Paper Sub-Group	102.0	105.5	111.0	114.2	116.3	121.4	148.6	172.9
Paper, except Newsprint	102.2	105.8	112.0	114.8	116.1	121.0	147.7	169.3
Book Paper, Uncoated Offset	102.4	106.2	112.0	116.3	118.5	120.9	153.7	158.0
Wood Bond, Unwatermarked	105.7	108.8	115.6	120.1	121.9	124.8	139.5	148.5
25% Cotton Fiber	103.5	106.6	112.1	115.4	116.7	122.2	147.8	162.8
Wrapping Paper	98.0	104.5	117.6	117.9	119.8	127.4	158.6	200.8
Newsprint Class	101.1	104.4	107.6	112.2	116.7	122.2	151.2	184.0
Coated Printing Paper #3	(Index Dec. 1973 = 100)			--	--	--	110.1	118.4
Coated Printing Paper #5	(Index Dec. 1973 = 100)			--	--	--	119.6	136.3
Watermarked Bond #1	(Index Dec. 1973 = 100)			--	--	--	108.3	114.6
Form Bond, 12 lbs.	(Index Dec. 1973 = 100)			--	--	--	128.7	144.7
Uncoated Index Bristols	(Index Dec. 1973 = 100)			--	--	--	119.2	133.5
Shipping Sack, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	117.6	143.0
Standard Converting, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	116.1	140.7
Grocery Sack, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	118.3	150.7
Form Bond, 15 lb.	(Index Dec. 1975 = 100)			--	--	--	--	--
Paperboard Sub-Group	95.9	99.4	101.1	102.4	105.5	115.1	152.2	170.3
Containerboard Class	93.1	97.2	99.0	100.3	103.9	113.4	146.2	171.5
Linerboard, 42 lb. Kraft	94.4	97.5	99.2	100.3	103.4	111.4	143.8	171.0
Corrugating Medium, Semichemical	89.6	96.3	98.9	100.2	105.1	118.3	152.2	172.5
Folding Boxboard Class	100.2	102.5	103.2	104.6	106.5	115.7	158.2	162.8
Set-Up Boxboard Class	102.2	107.0	110.7	113.7	119.0	131.4	185.4	192.9
Chipboard	103.4	109.6	114.1	117.5	123.3	135.0	187.3	191.7
White Clay Coated, 80 Bright	(Index Dec. 1974 = 100)			--	--	--	--	100.0
Bleached Board Folding Carton	(Index Dec. 1974 = 100)			--	--	--	--	102.0
Uncoated Cup Stock	(Index Dec. 1974 = 100)			--	--	--	--	102.8
Tube, Can and Drum Stock	(Index Dec. 1974 = 100)			--	--	--	--	100.2
Converted Products Sub-Group	101.0	103.6	107.9	109.7	113.6	121.6	144.9	161.8
Sanitary Paper, etc.	104.2	109.1	115.1	119.6	121.0	124.8	155.7	194.7
Paper Bags, Shipping Sacks	94.4	98.4	106.9	100.1	107.6	119.4	138.6	155.7
Boxes, Shipping Containers	101.6	104.4	108.1	111.5	115.9	124.5	146.0	158.0
Gummed Sealing Tape	100.8	102.0	102.1	100.4	102.9	111.8	138.8	161.6
Office Supplies	100.3	98.7	101.4	101.9	103.2	109.9	136.1	148.5
Composite Cans	102.7	104.6	108.3	112.3	115.9	122.3	143.6	167.3
Building Paper and Board Sub-Group	100.9	105.5	101.0	102.8	106.4	112.8	123.5	127.1
All Commodities	102.5	106.5	110.4	114.0	119.1	134.7	160.1	174.9
Industrial Commodities	102.5	106.0	110.0	114.1	117.9	125.9	153.8	171.5

SOURCES: Bureau of Labor Statistics, Microfiche report containing complete series of producers price indexes through June 1982, U.S. Department of Labor, Washington, D.C.

NOTE: Annual figures are averages of monthly data.

TABLE XXX (Cont.)

WHOLESALE AND PRODUCERS PRICE INDEXES

FOR SELECTED SUBGROUPS AND CLASSES OF

WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1968 - 1983

(Index 1967 = 100)

	1981 BLS Price Codes	1976	1977	1978	1979	1980	1981	1982	1983
PULP, PAPER & ALLIED PRODUCTS	09	179.4	186.4	195.6	219.0	249.2	273.8	288.7	298.1
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	091	180.8	187.3	195.6	220.2	250.6	270.8	273.2	271.4
Wood Pulp Sub-Group	0911	286.0	281.1	266.5	314.3	380.3	397.1	379.0	346.9
Sulphate, Bleached Softwood	09110211	282.8	277.0	257.1	308.4	378.6	395.7	375.0	332.5
Sulphite, Bleached	09110221	291.0	278.1	268.6	336.3	420.6	431.4	405.6	331.9
Paper Making Wood Pulp	091102	192.5	186.8	174.5	263.5	263.5	272.6	254.3	328.3
Bleached Sulphate Hardwood Pulp	09110212	181.1	174.0	162.9	197.5	240.2	241.9	208.6	N.A.
Dissolving Wood Pulp	091103	189.9	193.8	191.5	197.9	229.9	247.8	254.2	244.2
Waste Paper Sub-Group	0912	184.9	187.2	191.2	206.6	208.7	175.7	122.8##	201.2##
No. 1 News	09120102	199.5	209.6	200.5	151.8	167.4	95.7	72.1#	N.A.
No. 1 Mixed	09120205	156.3	174.4	224.0	204.3	221.7	189.8	142.7#	N.A.
Old Corrugated Boxes	09120311	195.7	186.4	202.0	278.4	192.0	136.9	94.6#	N.A.
Semichemical Kraft Clippings	09120415	209.6	210.4	224.2	335.4	325.7	277.7	184.1#	N.A.
Mixed Kraft Clippings	09120521	231.0	232.2	248.7	384.4	371.4	313.5	221.4#	N.A.
White News Blanks	09120625	185.9	186.7	178.5	186.3	217.2	206.8	144.2#	N.A.
Paper Sub-Group	0913	182.3	194.3	206.1	229.6	256.8	279.8	286.3	282.0
Paper, except Newsprint	091301	177.1	187.2	199.4	222.8	249.3	271.1*	278.3*	276.9*
Printing Paper, Ctd. 2 Sides, Other Grades	09130116	(Index June 1981=100)		--	--	--	--	104.2	105.3
Printing Paper, Ctd. 1 Side	09130117	(Index June 1981=100)		--	--	--	--	109.8	111.5
Book Paper, Uncoated Offset	09130122	164.7	173.8	188.3	214.1	238.9	266.3	247.3	270.6
Wood Bond, Unwatermarked	09130131	151.1	156.6	164.7	182.1	203.5	220.2	224.7	225.3
25% Cotton Fiber	09130141	170.2	180.1	187.3	203.7	230.0	248.1	261.2	265.7
Thin Paper	09130142	(Index June 1981=100)		--	--	--	--	107.2	107.7
Cover & Text	09130148	(Index June 1981=100)		--	--	--	--	105.8	108.1
Uncoated Body Stock	09130149	(Index June 1981=100)		--	--	--	--	97.8	95.5
Wrapping Paper	09130302	208.4	213.3	225.6	243.6	264.3	N.A.	313.2E	315.8
Newsprint Class	09130291	198.2	215.5	226.3	250.2	279.3	308.0	315.8	303.0
Coated Printing Paper #3	09130113	128.5	139.1	153.9	167.2	178.6	193.0	202.9	206.4
Coated Printing Paper #5	09130115	144.9	162.3	179.5	194.5	217.7	235.3	238.9	231.0
Watermarked Bond #1	09130132	116.2	119.9	125.3	137.4	150.4	N.A.	N.A.	N.A.
Form Bond, 12 lbs.	09130133	149.0	154.2	165.3	187.8	209.7	226.3	217.7E	202.6E
Uncoated Index Bristol	09130147	137.8	144.1	149.7	166.6	191.3	N.A.	N.A.	N.A.
Packaging and Industrial Converting	091303	(Index June 1981=100)		--	--	--	--	98.6	98.1
Shipping Sack, Unbl. Kraft	09130304	145.3	155.4	161.5	178.3	199.6	220.4	214.8	226.8
Standard Converting, Unbl. Kraft	09130311,2	141.5	145.4	151.5	167.0	191.3	N.A.	N.A.	N.A.
Other Converting, 18 lb & Over, Unbleached Kraft	09130311	(Index June 1981=100)		--	--	--	--	99.8	97.7
Other Converting, 18 lb. & Over, Exc. Unbleached Kraft	09130312	(Index June 1981=100)		--	--	--	--	100.8	99.8
Grocery Sack, Unbl. Kraft	09130307	152.0	151.2	158.2	179.6	210.6	223.9	208.3	206.1
Form Bond, 15 lb.	09130134	102.4	103.9	110.9	126.1	142.3	154.7	151.5	148.0
Special Industrial Paper	091304	(Index June 1981=100)		--	--	--	--	104.2	102.9
Paperboard Sub-Group	0914	176.0	176.2	179.6	202.1	234.6	258.1	254.9	250.9
Containerboard Class	091401	176.1	172.0	172.7	197.8	231.1	252.5	246.1	N.A.
Linerboard, 42 lb. Kraft	09140101	174.4	170.6	171.5	196.4	231.0	251.8	247.0	104.5RS
Corrugating Med., Semichem.	09140111	181.5	177.3	179.1	203.8	233.2	254.9	245.2	103.8RS
Folding Boxboard Class	091402	167.4	174.8	185.2	199.4	229.2	249.5	250.2	N.A.
Set-Up Boxboard Class	091403	195.1	204.1	214.9	234.5	274.6	294.0	300.4	N.A.
Chipboard	09140332	193.9	202.8	213.5	233.1	272.9	292.2	298.5	101.7RS
White Clay Ctd., 80 Bright	09140225	103.7	108.8	117.6	124.8	141.6	154.4	149.7	N.A.
Bleached Board Fldg. Carton	09140441	109.9	117.4	124.0	134.4	152.6	176.1	177.7	100.8RS
Uncoated Cup Stock	09140442	111.1	118.7	122.8	135.5	156.4	178.8	184.8	N.A.
Tube, Can and Drum Stock	09140448	103.0	104.1	105.6	117.0	133.4	143.4	145.3	N.A.
Converted Products Sub-Group	0915	170.0	176.6	186.5	209.9	238.5	258.8	264.4	265.3
Sanitary Paper, etc.	091501	214.4	236.7	253.8	279.9	325.0	347.3	353.7	361.0
Paper Bags, Shipping Sacks	091502	163.5	171.5	190.9	220.4	246.4	N.A.	263.3	260.6
Boxes, Shipping Containers	091503	164.7	167.6	174.6	197.6	223.2	243.9	249.6	248.4
Gummed Sealing Tape	09150431	168.3	175.8	187.6	205.5	246.7	260.9	267.7	263.1
Office Supplies	091506	149.4	151.4	156.7	178.6	198.7	214.6	224.6	227.4
Composite Cans	091507	179.0	194.3	209.6	226.4	253.3	272.8	298.4	317.7
Building Paper and Board Sub-Group	092	138.8	157.0	187.4	182.4	206.2	231.7	239.5	250.0
Publications, Pr. Matter & Prtg.	093				(Index Dec. 1980 = 100)		108.2	118.4	125.9
All Commodities		183.0	194.2	209.3	235.6	268.8	293.4	299.3	303.1
Industrial Commodities		182.4	195.1	209.4	236.5	274.8	304.1	312.3	315.7

* Also excludes packaging paper E - Estimate N.A. - Not Available # - January-September average

RS - Revised Series, December 1982 = 100. Definitions not fully consistent with earlier ones. ## - July-December average

TABLE XXXI

GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1982

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture ($ Mil.)	Cost of Materials ($ Mil.)	Value of Industry Shipments ($ Mil.)	Capital Expenditures New ($ Mil.)	End-of-Year Inventories ($ Mil.)
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)					
26	PAPER AND ALLIED PRODUCTS	602.6	12,893.7	459.1	919.5	9,018.0	(*)	46,512.3	79,675.0	5,086.8	(*)
2611	Pulp Mills	16.7	467.9	12.8	24.7	345.1	(*)	1,986.5	3,129.0	658.6	(*)
2621	Paper Mills, exc. Bldg. Paper	129.9	3,455.1	100.8	209.8	2,582.1	(*)	12,263.8	21,164.1	1,868.5	(*)
2631	Paperboard Mills	54.5	1,471.7	42.2	86.8	1,096.1	(*)	5,758.0	9,397.0	1,277.9	(*)
264	Misc.Converted Paper Products	211.5	3,925.1	160.6	317.5	2,655.0	(*)	14,524.5	26,458.7	779.8	(*)
2641	Paper Coating and Glazing	41.4	843.7	28.7	57.4	515.7	(*)	3,011.7	5,249.8	194.1	(*)
2642	Envelopes	25.1	438.1	19.6	37.9	294.4	(*)	933.4	1,798.9	46.2	(*)
2643	Bags, except Textile Bags	50.1	848.2	39.8	78.4	595.3	(*)	2,961.7	5,016.0	138.5	(*)
2645	Die-Cut Paper and Board	15.7	243.8	12.4	23.4	167.1	(*)	974.4	1,676.0	32.7	(*)
2646	Pressed and Molded Pulp Goods	3.2	59.6	2.5	5.2	49.1	(*)	90.5	221.6	7.0	(*)
2647	Sanitary Paper Products	36.1	860.6	28.3	58.7	638.9	(*)	4,728.6	9,077.0	270.9	(*)
2648	Stationery Products	12.7	194.0	9.6	18.4	127.8	(*)	592.5	1,035.0	21.5	(*)
2649	Converted Paper Products, NEC	27.2	37.1	19.7	38.1	266.7	(*)	1,231.7	2,384.4	68.9	(*)
265	Paperboard Containers and Boxes	186.4	3,503.3	139.8	275.0	2,284.9	(*)	11,775.1	19,160.1	487.5	(*)
2651	Folding Paperboard Boxes	43.7	842.1	34.5	69.7	590.1	(*)	2,237.1	3,922.2	102.2	(*)
2652	Set-Up Paperboard Boxes	10.3	129.6	8.7	16.2	88.1	(*)	175.5	413.4	9.3	(*)
2653	Corrugated, Solid Fiber Boxes	93.8	1,851.8	66.9	131.0	1,140.6	(*)	6,855.8	10,515.2	279.5	(*)
2654	Sanitary Food Containers	24.7	431.1	18.4	36.3	284.4	(*)	1,607.5	2,833.4	67.1	(*)
2655	Fiber Cans,Drums,Similar Prod.	13.9	248.7	11.3	21.8	181.7	(*)	899.2	1,475.9	29.4	(*)
2661	Building Paper and Board Mills	3.6	70.6	2.9	5.7	54.8	(*)	204.4	366.1	14.5	(*)

1981

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture ($ Mil.)	Cost of Materials ($ Mil.)	Value of Industry Shipments ($ Mil.)	Capital Expenditures New ($ Mil.)	End-of-Year Inventories ($ Mil.)
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)					
26	PAPER AND ALLIED PRODUCTS	635.8	12,643.7	486.6	993.5	8,823.4	32,351.1	48,312.7	80,233.8	5,202.1	8,446.0
2611	Pulp Mills	15.9	408.1	12.3	25.1	310.4	1,221.7	1,960.1	3,141.8	521.5R	399.9
2621	Paper Mills, exc. Bldg. Paper	130.4	3,236.2	101.6	212.3	2,408.9	8,533.1	12,135.3	20,544.1	2,434.8R	1,987.7
2631	Paperboard Mills	61.7	1,570.1	48.4	102.3	1,191.7	4,304.1	6,622.9	10,881.8	974.2	757.1
264	Misc.Converted Paper Products	221.4	3,839.1	167.8	334.8	2,550.0	10,929.3	15,287.7	26,111.6	746.1	3,004.2
2641	Paper Coating and Glazing	42.2	805.8	28.5	58.0	473.9	2,103.6	3,077.9	5,146.0	199.8	672.3
2642	Envelopes	25.6	393.8	20.3	39.8	268.8	769.1	837.1	1,600.7	38.1	179.9
2643	Bags, except Textile Bags	54.7	884.0	43.3	87.7	606.8	2,123.2	3,523.8	5,613.4	165.7	712.3
2645	Die-Cut Paper and Board	17.2	258.1	13.2	24.9	166.8	683.1	1,004.6	1,676.6	23.2	178.8
2646	Pressed and Molded Pulp Goods	3.2	60.5	2.7	5.9	48.6	128.0	108.7	238.6	2.5	23.0
2647	Sanitary Paper Products	36.6	804.6	28.9	58.4	599.5	3,654.0	4,670.4	8,345.8	248.2	614.5
2648	Stationery Products	11.9	168.6	9.0	17.3	110.4	234.9	666.2	892.9	13.1	143.8
2649	Converted Paper Products, NEC	30.1	463.8	21.9	42.9	275.2	1,233.4	1,398.9	2,597.6	55.4	479.6
265	Paperboard Containers and Boxes	199.8	3,479.2	151.2	308.3	2,275.8	7,152.1	11,966.7	19,014.4	498.7	2,236.6
2651	Folding Paperboard Boxes	44.3	760.3	35.5	72.4	543.1	1,557.7	2,060.8	3,556.8	100.9	593.2
2652	Set-Up Paperboard Boxes	13.7	160.2	11.6	29.2	107.9	299.1	215.7	510.5	18.6	72.9
2653	Corrugated, Solid Fiber Boxes	97.3	1,818.7	69.5	139.2	1,118.2	3,632.4	7,128.8	10,760.3	271.2	971.9
2654	Sanitary Food Containers	28.3	462.3	21.6	42.0	306.7	1,079.0	1,642.0	2,690.9	70.7	439.4
2655	Fiber Cans,Drums,Similar Prod.	16.2	277.7	13.1	25.6	200.0	583.8	919.4	1,496.0	37.3	159.2
2661	Building Paper and Board Mills	6.5	111.2	5.3	10.7	86.6	210.8	340.0	540.1	26.8	60.5

SOURCE: 1982 Census of Manufactures
1981 Survey of Manufactures
* - Data for Inventories and Value Added suppressed in preliminary Census report

SECTION V

SUPPLEMENT

Tables XXXII and XXXIII present Census data on production, imports, exports and new supply of wet machine board and total construction paper and board, for the years 1947 through 1983.

These data are included in the production and new supply totals shown in Tables I and X. API does not collect data on these grades.

Table XXXIV presents the data on imports used in computing the new supply totals presented in Table X that were taken from sources other than Bureau of the Census. The Census data are presented in Table XIII.

Table XXXV presents similar data on exports. The Census data are presented in Table XIV.

This section also includes the index to this report.

TABLE XXXII

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1983

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	149,800	-	-	150,000
1948	142,134	-	-	142,000
1949	129,761	1,240	2,615	128,386
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,589	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	148,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,167	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
1980	137,649	2,118	8,017	131,750
1981	160,293	1,684	10,812	151,165R
1982	N.A.	1,842	11,089	N.A.
1983	N.A.	3,584	11,622	N.A.

SOURCE: Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues

R - Revised
N.A. - Not Available

TABLE XXXIII

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1983

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	2,047,763	32,923	35,406	2,045,280
1948	2,227,217	30,695	23,277	2,234,635
1949	1,773,573	22,541	28,090	1,768,024
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,443,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,639	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,098	26,591	26,539	2,679,150
1968	2,906,986	38,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,006	3,236,910
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,241	3,459,243
1980	2,420,112	473,679	58,911	2,834,880
1981	1,989,203	396,496	68,832	2,316,867R
1982	N.A.	419,515	47,833	N.A.
1983	N.A.	473,667	55,746	N.A.

SOURCE: Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues

NOTE: Excludes Hard Pressed Board

R - Revised

N.A. - Not Available

TABLE XXXIV

IMPORTS

1959 - 1983
(000 Tons)

YEAR	Newsprint	Uncoated Groundwood Paper	Coated Papers	Uncoated Free Sheet Papers
1959	5,274	41.5	0	0.2
1960	5,426	39.5	0	1.8
1961	5,382	35.9	0	3.4
1962	5,415	41.5	0	3.8
1963	5,398	44.2	0	5.3
1964	5,908	70.6	0	11.2
1965	6,349	98.1	0.9	10.7
1966	6,884	132.9	0.9	14.2
1967	6,546	147.5	1.4	34.7
1968	6,391	136.8	1.3	13.4
1969	6,724	216.9	3.3	15.4
1970	6,477	232.9	3.5	48.9
1971	6,463	244.2	4.7	108.5
1972	6,758	225.1	4.5	93.3
1973	7,236	237.1	12.3	120.2
1974	7,452	321.3	16.3	138.9
1975	5,552	264.0	4.7	86.9
1976	6,308	338.1	15.5	133.9
1977	6,339	443.2	111.6	155.3
1978	7,102	610.7	213.7	112.7
1979	7,168	694.5	188.7	141.7R
1980	6,880	688.1	114.8	119.0R
1981	6,728	650.0	39.0	119.5R
1982	6,214R	652.8	69.1	157.0R
1983	6,725	920.4	162.4	222.8

SOURCE: Newsprint - Canadian Shipments to U.S., CPPA; Other Country Imports to U.S., U.S. Bureau of Census
Uncoated Groundwood - Imports from Canada, CPPA
Imports from other countries, Bureau of the Census, adjusted by Printing/Writing Division of API
Uncoated Free Sheet Papers - Bureau of the Census, adjusted by Printing/Writing Division of API
Coated Papers - Bureau of the Census

TABLE XXXV

EXPORTS

1959 - 1983
(000 Tons)

YEAR	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Sheet Papers	Unbleached Kraft Paperboard	Semichemical Paperboard	Bleached Paperboard	Recycled Paperboard
1959	4.6	25.6	44.8	329.0	21.0	17.0	40.0
1960	8.6	26.1	38.2	381.0	31.0	23.0	46.0
1961	10.2	21.7	34.6	407.0	62.0	32.0	60.0
1962	9.1	24.3	31.3	445.0	44.0	33.0	55.0
1963	11.1	27.1	30.1	517.0	83.0	39.0	53.0
1964	13.1	36.6	34.4	765.0	107.0	45.0	71.0
1965	3.2	48.5	29.0	905.0	55.0	47.0	32.0
1966	3.8	49.6	30.6	1,016.0	64.0	59.0	27.0
1967	4.4	46.8	27.3	1,174.0	76.0	61.0	23.0
1968	7.9	57.1	31.9	1,380.7	94.0	108.5	12.8
1969	6.1	70.0	35.3	1,682.8	52.4	108.1	16.8
1970	7.3	75.2	41.3	1,683.4	84.3	114.4	17.3
1971	9.9	72.2	46.2	1,834.3	104.0	156.5	20.6
1972	17.6	76.2	50.6	1,887.5	111.7	217.8	14.4
1973	29.7	80.6	64.9	1,596.7	107.4	280.3	30.8
1974	53.3	98.8	100.4	1,582.7	145.5	320.2	101.0
1975	74.7	122.8	119.8	1,058.0	115.4	256.2	23.9
1976	70.6	106.7	147.3	1,247.3	119.3	306.1	36.5
1977	54.1	98.9	111.4	1,289.6	121.9	389.4	29.6
1978	58.1	73.7	84.9	1,466.3	119.2	432.9	21.6
1979	80.4	73.5	68.1	1,645.3	98.2	496.7	21.8
1980	101.0	92.8	88.3	2,379.8	322.3	549.4	82.6
1981	119.7	88.6	116.7	1,886.6	155.2	556.6	23.8
1982	55.9	81.4	70.6	1,931.4	184.9	524.7	12.7
1983	37.5	79.2	59.3	2,280.7	192.6	514.5	24.3

SOURCE: Paper Grades - Bureau of the Census; Printing/Writing Paper Division compilation
Paperboard Grades - 1959-1967 - Bureau of the Census
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